# **EXHIBIT C**

Page 1

# IN THE UNITED STATES DISTRICT COURT FOR THE SOUTHERN DISTRICT OF WEST VIRGINIA

CHARLESTON DIVISION

IN RE: ETHICON, INC., PELVIC REPAIR SYSTEM PRODUCTS

PRODUCTS LIABILITY LITIGATION

THIS DOCUMENT RELATES TO THE FOLLOWING CASES IN WAVE 2 OF MDL 200:

Tamara Carter, et al. v. )
Ethicon, Inc., et al. )
Civil Action No. 2:12-cv-01661 )

Sandra Childress, et al. v. )
Ethicon, Inc., et al. )
Civil Action No. 2:12-cv-01564 )

Marion Chrysler v. )
Ethicon, Inc., et al. )
Civil Action No. 2:12-cv-02060 )

Melissa Sanders, et al. v. ) Ethicon, Inc., et al. ) Civil Action No. 2:12-cv-01562 )

Ana Sierra, et al. v. )
Ethicon, Inc., et al. )
Civil Action No. 2:12-cv-01819 )

Toni Hernandez v. )
Ethicon, Inc., et al. )
Civil Action No. 2:12-cv-02073 )

Reported by:

Rebecca J. Callow, CSR, RPR, CRR

Master File No.

2:12-MD-02327

MDL 2327

JOSEPH R. GOODWIN

) U.S. DISTRICT JUDGE

) PAUL J. MICHAELS, M.D.

) JUNE 18, 2016

	Page 2		Page 4
1		1	APPEARANCES:
2	DEPOSITION OF PAUL J. MICHAELS, M.D.	2	
3	THIS DOCUMENT RELATES TO GENERAL TESTIMON	Y 3	FOR JOHNSON & JOHNSON AND ETHICON, INC.
4	Austin, Texas	4	Thomas Combs & Spann PLLC
5	Saturday, June 18th, 2016	5	300 Summers Street
6	8:04 a.m.	6	Suite 1380
7		7	Charleston, West Virginia 25301
8		8	(304) 414-1807
9	Deposition of PAUL J. MICHAELS, M.D, pursuant to	9	BY: David B. Thomas, Esquire
10	Notice held at the offices of Hissey Kientz,	10	dthomas@tcspllc.com
11	9442 N. Capital of Texas Highway Building 1,	11	r
12	First Floor Conference Room, Austin, Texas, before	12	FOR JOHNSON & JOHNSON AND ETHICON, INC.
13	Rebecca J. Callow, Registered Merit Reporter,	13	Butler Snow, LLP
14	Certified Realtime Reporter, Registered	14	150 3rd Avenue South
15	Professional Reporter, and Notary Public in and	15	Suite 1600
16	for the State of Texas.	16	Nashville Tennessee 37201
17		17	(615) 651-6700
18		18	BY: M. Andrew Snowden, Esquire
19		19	andy.snowden@butlersnow.com
20		20	
21		21	
22		22	
23		23	
24		24	
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1	APPEARANCES:	1	INDEX
2		2	PAGE
3	FOR PLAINTIFFS:	3	PAUL J. MICHAELS, M.D.
4	Aylstock, Witkin, Kreis & Overholtz, PLLC	4	Examination by Mr. Thomas6
5	17 East Main Street	5	Changes and corrections127
6	Suite 200	6	Signature Page129
7	Pensacola, Florida 32502	7	Court Reporter's Certificate130
8	(850) 202-1010	8	•
9	BY: Bryan F. Aylstock, Esquire	9	
10	baylstock@awkolaw.com	10	
11		11	EXHIBITS
12	FOR PLAINTIFFS:	12	NO. DESCRIPTION PAGE
13	Danny L. Curtis, P.C.	13	Exhibit 1 Notice of Deposition of Paul 7
14	9229 Ward Parkway	14	Michaels. M.D.
15	Suite 370	15	Exhibit 2 Flash drive containing reliance 8
16	Kansas City, Missouri 64114	16	materials of Paul Michaels,
17	(816) 523-4667	17	M.D.
18	BY: Danny L. Curtis, Esquire	18	Exhibit 3 Expert Report of Paul T. 16
19	dcurtis@dannylcurtispc.com	19	Michaels, M.D. (Re: Sandra
20		20	Childress)
21		21	Exhibit 4 Exhibit D: Reliance List for 17
22		22	Paul Michaels, M.D.
23		23	
24		24	

2 (Pages 2 to 5)

	Page 6		Page 8
1	(Witness sworn.)	1	MR. THOMAS: Okay. And is that all
2	MR. AYLSTOCK: Before we get started,	2	the information that you produced pursuant to the
3	Dave, I guess, I know there were some e-mails flying	3	notice of deposition?
4	back and forth. To the extent that Dr. Michaels was	4	MR. CURTIS: It's all that I produced.
5	withdrawn as a general expert, he's by my e-mails	5	I think that there are other materials that have
6	for cases where he's designated, our understanding	6	also been produced, but that's an explanation of why
7	is that he will be designated both as case-specific	7	Dr. Michaels did not bring materials in paper copy
8	and generic in those and we're permitting you to	8	this morning.
9	take a generic general deposition of Dr. Michaels	9	MR. THOMAS: Thank you.
10	pursuant to the notices that you provided.	10	A. I have a flash drive that has my CV and all
11	MR. THOMAS: Thank you.	11	the representative information that was included in
12	PAUL J. MICHAELS, M.D.,	12	Schedule A of this notice of deposition.
13	Called as a witness herein, having been	13	BY MR. THOMAS:
14	previously duly sworn by a Notary Public, was	14	Q. Can I have that flash drive?
15	examined and testified as follows:	15	A. Yes.
16	EXAMINATION	16	(Exhibit 2 marked.)
17	BY MR. THOMAS:	17	MR. THOMAS: I've marked as
18	Q. Good morning, Doctor.	18	Exhibit No. 2 the flash drive that Dr. Michaels just
19	A. Good morning.	19	gave me.
20	Q. I introduced myself to you before the	20	BY MR. THOMAS:
21	deposition. My name is David Thomas and I represent		Q. Without going into great detail, unless you
22	Ethicon.	22	can, is there anything on the Schedule A that you
23	You've given depositions before?	23	did not produce?
24	A. Yes.	24	MR. AYLSTOCK: Just again to
2.1		21	WIK. ATESTOCK. Just again to
	Dago 7		Dago 0
	Page 7		Page 9
1	(Exhibit 1 marked.)	1	reiterate, we objected to form to a large portion of
2	(Exhibit 1 marked.) BY MR. THOMAS:	2	reiterate, we objected to form to a large portion of it
2 3	(Exhibit 1 marked.) BY MR. THOMAS: Q. Let me show you what I've marked as	2	reiterate, we objected to form to a large portion of it MR. THOMAS: I understand. I don't
2 3 4	(Exhibit 1 marked.) BY MR. THOMAS: Q. Let me show you what I've marked as Deposition Exhibit No. 1. It's a notice of	2 3 4	reiterate, we objected to form to a large portion of it MR. THOMAS: I understand. I don't want to spend my time going through each one of them
2 3 4 5	(Exhibit 1 marked.) BY MR. THOMAS: Q. Let me show you what I've marked as Deposition Exhibit No. 1. It's a notice of deposition for you in six cases in the pelvic mesh	2 3 4 5	reiterate, we objected to form to a large portion of it MR. THOMAS: I understand. I don't want to spend my time going through each one of them to figure it out.
2 3 4 5 6	(Exhibit 1 marked.) BY MR. THOMAS: Q. Let me show you what I've marked as Deposition Exhibit No. 1. It's a notice of deposition for you in six cases in the pelvic mesh MDL.	2 3 4 5 6	reiterate, we objected to form to a large portion of it  MR. THOMAS: I understand. I don't want to spend my time going through each one of them to figure it out.  MR. AYLSTOCK: That's fine.
2 3 4 5 6 7	(Exhibit 1 marked.) BY MR. THOMAS: Q. Let me show you what I've marked as Deposition Exhibit No. 1. It's a notice of deposition for you in six cases in the pelvic mesh MDL. Have you seen that notice of deposition	2 3 4 5 6 7	reiterate, we objected to form to a large portion of it  MR. THOMAS: I understand. I don't want to spend my time going through each one of them to figure it out.  MR. AYLSTOCK: That's fine. BY MR. THOMAS:
2 3 4 5 6 7 8	(Exhibit 1 marked.) BY MR. THOMAS: Q. Let me show you what I've marked as Deposition Exhibit No. 1. It's a notice of deposition for you in six cases in the pelvic mesh MDL. Have you seen that notice of deposition before?	2 3 4 5 6 7 8	reiterate, we objected to form to a large portion of it  MR. THOMAS: I understand. I don't want to spend my time going through each one of them to figure it out.  MR. AYLSTOCK: That's fine.  BY MR. THOMAS:  Q. And if there's something that you know of
2 3 4 5 6 7 8	(Exhibit 1 marked.) BY MR. THOMAS: Q. Let me show you what I've marked as Deposition Exhibit No. 1. It's a notice of deposition for you in six cases in the pelvic mesh MDL. Have you seen that notice of deposition before? A. Yes.	2 3 4 5 6 7 8	reiterate, we objected to form to a large portion of it  MR. THOMAS: I understand. I don't want to spend my time going through each one of them to figure it out.  MR. AYLSTOCK: That's fine.  BY MR. THOMAS:  Q. And if there's something that you know of that you didn't produce, tell me. Otherwise, we'll
2 3 4 5 6 7 8 9	(Exhibit 1 marked.) BY MR. THOMAS: Q. Let me show you what I've marked as Deposition Exhibit No. 1. It's a notice of deposition for you in six cases in the pelvic mesh MDL. Have you seen that notice of deposition before? A. Yes. Q. Did you bring anything with you in response	2 3 4 5 6 7 8 9	reiterate, we objected to form to a large portion of it  MR. THOMAS: I understand. I don't want to spend my time going through each one of them to figure it out.  MR. AYLSTOCK: That's fine.  BY MR. THOMAS:  Q. And if there's something that you know of that you didn't produce, tell me. Otherwise, we'll get to it later.
2 3 4 5 6 7 8 9 10	(Exhibit 1 marked.) BY MR. THOMAS: Q. Let me show you what I've marked as Deposition Exhibit No. 1. It's a notice of deposition for you in six cases in the pelvic mesh MDL. Have you seen that notice of deposition before? A. Yes. Q. Did you bring anything with you in response to Schedule A attached to the notice?	2 3 4 5 6 7 8 9 10	reiterate, we objected to form to a large portion of it  MR. THOMAS: I understand. I don't want to spend my time going through each one of them to figure it out.  MR. AYLSTOCK: That's fine.  BY MR. THOMAS:  Q. And if there's something that you know of that you didn't produce, tell me. Otherwise, we'll get to it later.  A. Not that I'm exactly aware of.
2 3 4 5 6 7 8 9 10 11	(Exhibit 1 marked.) BY MR. THOMAS: Q. Let me show you what I've marked as Deposition Exhibit No. 1. It's a notice of deposition for you in six cases in the pelvic mesh MDL. Have you seen that notice of deposition before? A. Yes. Q. Did you bring anything with you in response to Schedule A attached to the notice? MR. CURTIS: Doctor, before you	2 3 4 5 6 7 8 9 10 11	reiterate, we objected to form to a large portion of it  MR. THOMAS: I understand. I don't want to spend my time going through each one of them to figure it out.  MR. AYLSTOCK: That's fine.  BY MR. THOMAS:  Q. And if there's something that you know of that you didn't produce, tell me. Otherwise, we'll get to it later.  A. Not that I'm exactly aware of.  Q. Okay. And that's fine. We'll figure that
2 3 4 5 6 7 8 9 10 11 12 13	(Exhibit 1 marked.) BY MR. THOMAS: Q. Let me show you what I've marked as Deposition Exhibit No. 1. It's a notice of deposition for you in six cases in the pelvic mesh MDL. Have you seen that notice of deposition before? A. Yes. Q. Did you bring anything with you in response to Schedule A attached to the notice? MR. CURTIS: Doctor, before you answer, for the record, we filed written	2 3 4 5 6 7 8 9 10 11 12	reiterate, we objected to form to a large portion of it  MR. THOMAS: I understand. I don't want to spend my time going through each one of them to figure it out.  MR. AYLSTOCK: That's fine.  BY MR. THOMAS:  Q. And if there's something that you know of that you didn't produce, tell me. Otherwise, we'll get to it later.  A. Not that I'm exactly aware of.  Q. Okay. And that's fine. We'll figure that out, perhaps, as we go along.
2 3 4 5 6 7 8 9 10 11 12 13 14	(Exhibit 1 marked.) BY MR. THOMAS: Q. Let me show you what I've marked as Deposition Exhibit No. 1. It's a notice of deposition for you in six cases in the pelvic mesh MDL. Have you seen that notice of deposition before? A. Yes. Q. Did you bring anything with you in response to Schedule A attached to the notice? MR. CURTIS: Doctor, before you answer, for the record, we filed written objections e-filed written objections to the	2 3 4 5 6 7 8 9 10 11 12 13 14	reiterate, we objected to form to a large portion of it  MR. THOMAS: I understand. I don't want to spend my time going through each one of them to figure it out.  MR. AYLSTOCK: That's fine.  BY MR. THOMAS:  Q. And if there's something that you know of that you didn't produce, tell me. Otherwise, we'll get to it later.  A. Not that I'm exactly aware of.  Q. Okay. And that's fine. We'll figure that out, perhaps, as we go along.  Would you state your full name for the
2 3 4 5 6 7 8 9 10 11 12 13 14 15	(Exhibit 1 marked.) BY MR. THOMAS: Q. Let me show you what I've marked as Deposition Exhibit No. 1. It's a notice of deposition for you in six cases in the pelvic mesh MDL. Have you seen that notice of deposition before? A. Yes. Q. Did you bring anything with you in response to Schedule A attached to the notice? MR. CURTIS: Doctor, before you answer, for the record, we filed written objections e-filed written objections to the documents listed in the attachment to the notice for	2 3 4 5 6 7 8 9 10 11 12 13 14 15	reiterate, we objected to form to a large portion of it  MR. THOMAS: I understand. I don't want to spend my time going through each one of them to figure it out.  MR. AYLSTOCK: That's fine.  BY MR. THOMAS:  Q. And if there's something that you know of that you didn't produce, tell me. Otherwise, we'll get to it later.  A. Not that I'm exactly aware of.  Q. Okay. And that's fine. We'll figure that out, perhaps, as we go along.  Would you state your full name for the record, please?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	(Exhibit 1 marked.) BY MR. THOMAS: Q. Let me show you what I've marked as Deposition Exhibit No. 1. It's a notice of deposition for you in six cases in the pelvic mesh MDL. Have you seen that notice of deposition before? A. Yes. Q. Did you bring anything with you in response to Schedule A attached to the notice? MR. CURTIS: Doctor, before you answer, for the record, we filed written objections e-filed written objections to the documents listed in the attachment to the notice for his deposition in all of these cases. I didn't	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	reiterate, we objected to form to a large portion of it  MR. THOMAS: I understand. I don't want to spend my time going through each one of them to figure it out.  MR. AYLSTOCK: That's fine.  BY MR. THOMAS:  Q. And if there's something that you know of that you didn't produce, tell me. Otherwise, we'll get to it later.  A. Not that I'm exactly aware of.  Q. Okay. And that's fine. We'll figure that out, perhaps, as we go along.  Would you state your full name for the record, please?  A. Paul Joseph Michaels.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	(Exhibit 1 marked.) BY MR. THOMAS: Q. Let me show you what I've marked as Deposition Exhibit No. 1. It's a notice of deposition for you in six cases in the pelvic mesh MDL. Have you seen that notice of deposition before? A. Yes. Q. Did you bring anything with you in response to Schedule A attached to the notice? MR. CURTIS: Doctor, before you answer, for the record, we filed written objections e-filed written objections to the documents listed in the attachment to the notice for his deposition in all of these cases. I didn't bring written objections to be made an exhibit,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	reiterate, we objected to form to a large portion of it  MR. THOMAS: I understand. I don't want to spend my time going through each one of them to figure it out.  MR. AYLSTOCK: That's fine.  BY MR. THOMAS:  Q. And if there's something that you know of that you didn't produce, tell me. Otherwise, we'll get to it later.  A. Not that I'm exactly aware of.  Q. Okay. And that's fine. We'll figure that out, perhaps, as we go along.  Would you state your full name for the record, please?  A. Paul Joseph Michaels.  Q. And, Dr. Michaels, you are a medical
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	(Exhibit 1 marked.) BY MR. THOMAS: Q. Let me show you what I've marked as Deposition Exhibit No. 1. It's a notice of deposition for you in six cases in the pelvic mesh MDL. Have you seen that notice of deposition before? A. Yes. Q. Did you bring anything with you in response to Schedule A attached to the notice? MR. CURTIS: Doctor, before you answer, for the record, we filed written objections e-filed written objections to the documents listed in the attachment to the notice for his deposition in all of these cases. I didn't bring written objections to be made an exhibit, Mr. Thomas, but I wanted the record to include that.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	reiterate, we objected to form to a large portion of it  MR. THOMAS: I understand. I don't want to spend my time going through each one of them to figure it out.  MR. AYLSTOCK: That's fine.  BY MR. THOMAS:  Q. And if there's something that you know of that you didn't produce, tell me. Otherwise, we'll get to it later.  A. Not that I'm exactly aware of.  Q. Okay. And that's fine. We'll figure that out, perhaps, as we go along.  Would you state your full name for the record, please?  A. Paul Joseph Michaels.  Q. And, Dr. Michaels, you are a medical doctor?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	(Exhibit 1 marked.) BY MR. THOMAS: Q. Let me show you what I've marked as Deposition Exhibit No. 1. It's a notice of deposition for you in six cases in the pelvic mesh MDL. Have you seen that notice of deposition before? A. Yes. Q. Did you bring anything with you in response to Schedule A attached to the notice? MR. CURTIS: Doctor, before you answer, for the record, we filed written objections e-filed written objections to the documents listed in the attachment to the notice for his deposition in all of these cases. I didn't bring written objections to be made an exhibit, Mr. Thomas, but I wanted the record to include that. And also, we provided, by electronic	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	reiterate, we objected to form to a large portion of it  MR. THOMAS: I understand. I don't want to spend my time going through each one of them to figure it out.  MR. AYLSTOCK: That's fine.  BY MR. THOMAS:  Q. And if there's something that you know of that you didn't produce, tell me. Otherwise, we'll get to it later.  A. Not that I'm exactly aware of.  Q. Okay. And that's fine. We'll figure that out, perhaps, as we go along.  Would you state your full name for the record, please?  A. Paul Joseph Michaels.  Q. And, Dr. Michaels, you are a medical doctor?  A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	(Exhibit 1 marked.) BY MR. THOMAS: Q. Let me show you what I've marked as Deposition Exhibit No. 1. It's a notice of deposition for you in six cases in the pelvic mesh MDL. Have you seen that notice of deposition before? A. Yes. Q. Did you bring anything with you in response to Schedule A attached to the notice? MR. CURTIS: Doctor, before you answer, for the record, we filed written objections e-filed written objections to the documents listed in the attachment to the notice for his deposition in all of these cases. I didn't bring written objections to be made an exhibit, Mr. Thomas, but I wanted the record to include that. And also, we provided, by electronic link, the documents that were on the reliance list	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	reiterate, we objected to form to a large portion of it  MR. THOMAS: I understand. I don't want to spend my time going through each one of them to figure it out.  MR. AYLSTOCK: That's fine.  BY MR. THOMAS:  Q. And if there's something that you know of that you didn't produce, tell me. Otherwise, we'll get to it later.  A. Not that I'm exactly aware of.  Q. Okay. And that's fine. We'll figure that out, perhaps, as we go along.  Would you state your full name for the record, please?  A. Paul Joseph Michaels.  Q. And, Dr. Michaels, you are a medical doctor?  A. Yes.  Q. And what is your area of specialty?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	(Exhibit 1 marked.) BY MR. THOMAS: Q. Let me show you what I've marked as Deposition Exhibit No. 1. It's a notice of deposition for you in six cases in the pelvic mesh MDL. Have you seen that notice of deposition before? A. Yes. Q. Did you bring anything with you in response to Schedule A attached to the notice? MR. CURTIS: Doctor, before you answer, for the record, we filed written objections e-filed written objections to the documents listed in the attachment to the notice for his deposition in all of these cases. I didn't bring written objections to be made an exhibit, Mr. Thomas, but I wanted the record to include that. And also, we provided, by electronic link, the documents that were on the reliance list for each of the cases to include the medical	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	reiterate, we objected to form to a large portion of it  MR. THOMAS: I understand. I don't want to spend my time going through each one of them to figure it out.  MR. AYLSTOCK: That's fine.  BY MR. THOMAS:  Q. And if there's something that you know of that you didn't produce, tell me. Otherwise, we'll get to it later.  A. Not that I'm exactly aware of.  Q. Okay. And that's fine. We'll figure that out, perhaps, as we go along.  Would you state your full name for the record, please?  A. Paul Joseph Michaels.  Q. And, Dr. Michaels, you are a medical doctor?  A. Yes.  Q. And what is your area of specialty?  A. Pathology. Specifically atomic and
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	(Exhibit 1 marked.) BY MR. THOMAS: Q. Let me show you what I've marked as Deposition Exhibit No. 1. It's a notice of deposition for you in six cases in the pelvic mesh MDL. Have you seen that notice of deposition before? A. Yes. Q. Did you bring anything with you in response to Schedule A attached to the notice? MR. CURTIS: Doctor, before you answer, for the record, we filed written objections e-filed written objections to the documents listed in the attachment to the notice for his deposition in all of these cases. I didn't bring written objections to be made an exhibit, Mr. Thomas, but I wanted the record to include that. And also, we provided, by electronic link, the documents that were on the reliance list for each of the cases to include the medical records, the deposition transcripts, and other	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	reiterate, we objected to form to a large portion of it  MR. THOMAS: I understand. I don't want to spend my time going through each one of them to figure it out.  MR. AYLSTOCK: That's fine.  BY MR. THOMAS:  Q. And if there's something that you know of that you didn't produce, tell me. Otherwise, we'll get to it later.  A. Not that I'm exactly aware of.  Q. Okay. And that's fine. We'll figure that out, perhaps, as we go along.  Would you state your full name for the record, please?  A. Paul Joseph Michaels.  Q. And, Dr. Michaels, you are a medical doctor?  A. Yes.  Q. And what is your area of specialty?  A. Pathology. Specifically atomic and clinical pathology with a subspecialty in
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	(Exhibit 1 marked.) BY MR. THOMAS: Q. Let me show you what I've marked as Deposition Exhibit No. 1. It's a notice of deposition for you in six cases in the pelvic mesh MDL. Have you seen that notice of deposition before? A. Yes. Q. Did you bring anything with you in response to Schedule A attached to the notice? MR. CURTIS: Doctor, before you answer, for the record, we filed written objections e-filed written objections to the documents listed in the attachment to the notice for his deposition in all of these cases. I didn't bring written objections to be made an exhibit, Mr. Thomas, but I wanted the record to include that. And also, we provided, by electronic link, the documents that were on the reliance list for each of the cases to include the medical	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	reiterate, we objected to form to a large portion of it  MR. THOMAS: I understand. I don't want to spend my time going through each one of them to figure it out.  MR. AYLSTOCK: That's fine.  BY MR. THOMAS:  Q. And if there's something that you know of that you didn't produce, tell me. Otherwise, we'll get to it later.  A. Not that I'm exactly aware of.  Q. Okay. And that's fine. We'll figure that out, perhaps, as we go along.  Would you state your full name for the record, please?  A. Paul Joseph Michaels.  Q. And, Dr. Michaels, you are a medical doctor?  A. Yes.  Q. And what is your area of specialty?  A. Pathology. Specifically atomic and

Page 10 Page 12 more light to you off the record, yes, I would tell 1 witness in the Ethicon Pelvic Repair System Products 1 Liability Litigation? him not to answer that question. 2 3 3 A. Yes. MR. THOMAS: Okay. Again, I don't Q. And you're here to testify on behalf of the 4 want to spend time discussing stuff. That's going 4 5 plaintiffs? 5 to waste my time or we're not going to get any 6 A. Yes. 6 answers. 7 7 Q. In six cases. BY MR. THOMAS: 8 Who contacted you about this 8 Q. Prior to your retention in this case, can 9 9 you tell me something about your familiarity with 10 10 pelvic mesh implants? A. I don't remember exactly the order of how I 11 was contacted, but I believe it was Mr. Aylstock's 11 A. Well, as a pathologist, I've been exposed 12 12 to these specimens over the last several years. So 13 Q. Okay. And what were you asked to do? 13 I've grossly examined them, microscopically examined them, prior to being involved in this litigation, 14 A. I was asked to serve as an expert with 14 15 regards to the pathologic evaluation of the mesh 15 and that was basically it. 16 specimens in these clients that had brought this 16 Q. Has that been in your capacity as a 17 17 pathologist associated with the hospital? lawsuit. 18 18 Q. The notice of deposition lists six cases in A. That's correct. 19 which you're prepared to give opinions in this MDL. 19 Q. And how many pelvic mesh explants have you 20 Did you review other cases? 20 as a pathologist analyzed prior to your retention in 21 A. Yes. 21 this litigation? 22 22 Q. How many other cases did you review? A. I would probably say somewhere around two 23 A. One or two. 23 dozen, maybe. 24 24 Q. Over what period of time? Q. Okay. And did you decline to give opinions Page 11 Page 13 in those cases? 1 A. Seven, eight years, maybe. 1 2 A. No. 2 Q. Do you recall any time where you as a 3 One of them I did give an opinion. I 3 pathologist have been asked to analyze pelvic mesh 4 just -- it's not on here. I think it's for later. 4 implants to determine the extent to which the mesh 5 And then the other one I was told kind 5 contributed to the pathology in the tissue that you 6 6 of halfway through that I shouldn't work on the analyzed? 7 7 case anymore. I don't know what was happening to A. Could you repeat that? 8 8 it, if they were withdrawing or settling. I didn't MR. THOMAS: Could you? 9 ask. I was just told on this case -- and I don't 9 (The record was read as requested: 10 10 even remember the name -- don't work anymore on it. "Do you recall any time where you as a 11 Q. Do you know the names of the plaintiffs in pathologist have been asked to analyze 11 12 those two cases? 12 pelvic mesh implants to determine the 13 MR. AYLSTOCK: And with regard to 13 extent to which the mesh contributed 14 that, I'm going to object to the extent that he may 14 to the pathology in the tissue that 15 have been a consulting expert on those cases, you're 15 you analyzed?") 16 not entitled to know the names of those cases until A. Well, I would say that as a pathologist, 16 17 the time -- such time as he's been disclosed as an 17 that's what you do on a day-to-day basis. Whether 18 expert in those. 18 you're specifically asked by the submitting surgeon, 19 MR. THOMAS: I can't know that, Bryan. 19 a particular clinical question, that's what we do is 20 Are you instructing him not to answer or what? I 20 analyze specimens and report their pathological 21 21 don't know. significance. 22 MR. AYLSTOCK: With regard -- one of 22 So I would say that -- yes, that's 23 those cases is not mine, so for that, without his 23 part of my purview as a pathologist just with 24 lawyer here, who -- and I can probably shed some 24 general specimens would be to answer those clinical

Page 14 Page 16 1 questions, whether they're specifically asked or 1 provided to me or when I did my own PubMed search 2 2 with regards to mesh, polypropylene, transvaginal 3 3 BY MR. THOMAS: surgeries, et cetera, I came across a lot of 4 4 articles that way. I read a lot of articles in that Q. Prior to your retention in this litigation, 5 have you written pathology reports which expressed 5 respect. 6 6 opinions about the impact that the presence of I was -- I asked for and was given 7 7 polypropylene mesh may have played in the pathology some of the internal Ethicon documents with respect of the tissue that you reviewed? 8 to the litigation and their research on mesh. 9 A. Well, with regards to impact, I would say 9 And I reviewed some depositions from 10 if you were talking about a foreign body response, 10 different physicians that had been involved in the 11 that is in relationship to the mesh, then yes. 11 litigation prior to me being asked to be in the 12 Q. Anything other than commenting on the 12 litigation, as well as some of their prior expert 13 foreign body response due to the presence of the 13 reports to get a general overview of some of the 14 14 issues in the litigation. I would say those would 15 A. Fibrosis, fat necrosis. Those are the main 15 be the main things. 16 things that we address in pathology reports with 16 Q. What prior expert reports did you review? 17 17 regards to either mesh or any foreign-type material. A. Reports I think by physicians 18 Q. Have you had any training prior to your 18 Klausterhoften, Clinge, I believe, Iakovlev as well. 19 19 work in this litigation concerning the impact of Q. Any other expert reports you recall 20 polypropylene mesh in tissue? 20 reviewing? 21 A. I wouldn't say I've had any specific 21 A. Well, not in the beginning, no. 22 22 training with regards to the polypropylene mesh in (Exhibit 3 marked.) 23 tissue and its reaction. But just as a general 23 BY MR. THOMAS: 24 pathologist, within our training we are, I guess, 24 Q. Let me show you what's Deposition Exhibit Page 15 Page 17 1 taught and schooled with respect to foreign bodies 1 No. 3, which is your expert report in the Childress 2 in general. 2 case. The expert report in the Childress case has a 3 3 heading, "Background," "Summary of Opinions," and Q. Have you ever authored any papers related 4 4 to the impact of polypropylene mesh on tissue in the "Comment." 5 5 I'm interested now in the Comment pelvic floor? 6 6 section of Exhibit No. 3. A. No, I have not. 7 Q. Have you ever conducted any research 7 Does the Comment section in 8 concerning the impact of polypropylene mesh on 8 Exhibit No. 3, which goes from pages 2 through 5, 9 9 tissue in the pelvic floor? does that generally represent your general report in 10 10 A. No. this case? 11 Q. Have you ever spoken or taught on the topic 11 A. I would say that that generally represents 12 of the issue of the impact of polypropylene mesh on 12 my general opinions with regards to the case, yes. 13 tissue in the pelvic floor? 13 Q. Okay. And without showing you the other 14 14 A. No. five reports, does -- can I use the Childress report 15 15 as a template for your general opinions across all Q. When you were asked to assist the plaintiffs in this litigation, what did you do to 16 16 six cases? 17 prepare yourself for the work that you were going to 17 A. I don't know about that, because I -- they 18 do? 18 change -- I can't remember specifically, as I sit 19 19 A. Well, I re-reviewed a lot of the general here, but -- and without comparing all of the 20 20 pathology of inflammation and foreign body reports to one another, there may be some 21 21 granulomas reactions from several different differences from one report to another to this 22 textbooks and, I guess, online pathology sources. 22 comment section. 23 I reviewed a lot of the literature 23 Q. Okay. 24 24 that I came into contact with, either that was (Exhibit 4 marked.)

Page 18 Page 20 1 BY MR. THOMAS: 1 A. Well, for general pathology, background 2 2 information with regards to maybe some of the later Q. Let me show you what's been marked as 3 advancements with regards to inflammatory cytokines 3 Deposition Exhibit No. 4. 4 4 and mechanisms that maybe were even more recent than Deposition Exhibit No. 4 is Exhibit D 5 5 that I was provided Thursday afternoon and the most recent textbooks I have on the subject, but 6 6 not much in addition to that. represented to be your reliance list in connection 7 Q. And what did you search for specifically in 7 with your opinions in this case. 8 8 A. I don't think so, because this one says your Internet research? 9 "Chrysler deposition" on page 5, and we're talking 9 A. Inflammation mechanisms, foreign body 10 10 response, pathology foreign body response, about Childress. 11 Q. Well, the reason why I say that -- well, 11 histology, biology, et cetera. 12 this was given to me by plaintiffs on Thursday 12 Q. You mentioned that you studied papers 13 13 related to the complications associated with mesh in afternoon. 14 14 Other than the page 5, which are the pelvic floor. 15 individual medical records I think you said for the 15 Why was that important to you? 16 Chrysler case, do the first four pages of that 16 A. Because as part of my role as an expert, I 17 17 am correlating the findings based on the literature Exhibit No. 4 represent your reliance materials for 18 18 with respect to histopathologic features that I'm your general opinions in the case? 19 A. I believe so, yes. 19 finding in the mesh explants. 20 So if there are studies done with 20 Q. And you said a minute ago that you obtained 21 these materials from a variety of sources. 21 respect to correlating these findings, it was 22 22 Do you know which of these literature important to me, as a pathologist reviewing the 23 references you obtained on your own? 23 mesh, to be able to identify those and correlate 24 A. I couldn't go through them and pick them 24 them with the individual case-specific opinions, I Page 19 Page 21 1 1 out. guess. 2 Q. Counsel supplied you selected literature? 2 Q. In analyzing the complications associated 3 3 with the use of mesh in the pelvic floor, did you A. Initially, yes. 4 4 Q. Are you able to identify from materials determine the rate of those complications in 5 that you have in your files those materials that 5 surgeries? 6 6 counsel provided to you? A. From what I read, the rates seemed quite 7 7 A. No. Because I put them all in one general variable from study to study. 8 8 folder. And it would depend on what you were 9 9 Q. And likewise, are you able to identify specifically looking at and what was really 10 10 those materials that you found on your own through considered a complication, because that seems to 11 your own PubMed search? also have changed with respect to how, for example, 11 12 A. No. 12 recurrence is classified. 13 Q. I believe you said you did some Internet 13 Q. To the extent that you studied the rates of 14 14 complications occurring from mesh in the pelvic 15 A. Well, with regards to general -- I mean, 15 floor, did you include those papers in your reliance PubMed is an Internet research, so yes, I did. 16 list, which is Exhibit 4? 16 17 Q. Did you do any -- what did you search for 17 A. I included everything in my reliance list 18 under PubMed? 18 that I thought was pertinent to my opinions and that 19 A. Transvaginal mesh, you know, mesh pain, 19 I felt like seemed to be a pertinent study. 20 mesh complications, a variety of different -- I 20 Q. Are the rates of complications from the use 21 21 of mesh in the pelvic floor pertinent to your 22 Q. Other than your PubMed search on the 22 opinions in the case? 23 Internet, did you conduct any other Internet 23 MR. AYLSTOCK: Object to the form of the question to the extent that you're talking about 24 research? 24

6 (Pages 18 to 21)

	Page 22		Page 24
1 1	mesh generally.	1	A. Oh, okay. Yes.
2	THE WITNESS: Can you repeat that	2	Q. So you did seek to understand the
3	question?	3	complications that occur for the treatment of
4	(The record was read as requested:	4	conditions in the pelvic floor that don't involve
5	"Are the rates of complications from	5	mesh?
6	the use of mesh in the pelvic floor	6	A. Well, in many of the reports that I had,
7	pertinent to your opinions in the	7	there were discussions regarding comparing the
8	case?")	8	complications with mesh from complications of
9	A. I don't think necessarily.	9	surgeries that were similar prior to or without the
10	BY MR. THOMAS:	10	use of synthetic mesh.
11	Q. Why do you say you don't think necessarily?	11	Q. As a part of your work in this case, did
12	A. Well, I'm just because these are all	12	you make a determination of whether complications
13	I'm being involved in cases where the complication	13	were greater or fewer in surgeries using mesh for
	has occurred. So whether that occurs in 1 in 10,000	14	the treatment of stress urinary incontinence as
	or 1 in 5, it doesn't matter. It occurred in this	15	opposed to procedures involving the
	case.	16	Burch colposuspension?
17	So, although it's something that is a	17	A. Well, with respect to mesh versus non-mesh,
18	background information with respect to how common	18	yes.
	something is, I don't think in a particular case it	19	Q. And what did you learn from your work?
	changes any opinion that I would render.	20	A. That the complications from surgeries with
21	Q. As a part of your work in this case, did	21	respect to using synthetic mesh were greater.
	you undertake to determine how complications which	22	Q. Is that for the treatment of stress urinary
	result from the use of mesh in the pelvic floor	23	incontinence?
	occur?	24	A. Well, I would say, in general, with respect
	Page 23		Page 25
1	THE WITNESS: Could you repeat that?	1	to organ prolapse and stress urinary incontinence,
	Sorry.	2	my understanding from reviewing the literature is
3	THE REPORTER: No problem.	3	that the use of synthetic mesh resulted in an
4	(The record was read as requested:	4	increased number of complications with respect to
5	"As a part of your work in this case,	5	those types of surgical procedures compared to
6	did you undertake to determine how	6	procedures where non-synthetic mesh was used.
7	complications which result from the	7	Q. Okay. Specifically, did your review of the
8	use of mesh in the pelvic floor	8	literature lead you to conclude that the risk of
9	occur?")	9	complications in the use of mesh for the treatment
10	A. Yes.	10	of stress urinary incontinence is greater than the
11	BY MR. THOMAS:	11	risk of complications from non-mesh procedures used
12	Q. And how did you do that?	12	to treat stress urinary incontinence?
13	A. By trying to read some of the literature	13	A. I would say my general opinion, as I sit
	regarding the complications.	14	here now, from what I recall would be yes. But I
15	Q. And did you seek to understand the risk of	15	don't have a lot of those studies in front of me to
	complications in the pelvic floor from non-mesh	16	look at their reported complication rates.
	procedures?	17	Q. Do you remember which studies you used in
16			
16 17	<u> -</u>	18	that regard?
16 17 18	A. I don't know what non-mesh procedures	18 19	that regard?  A. With respect to the authors' names?
16 17 18 19	A. I don't know what non-mesh procedures you're talking about.		A. With respect to the authors' names?
16 17 18 19 20	A. I don't know what non-mesh procedures you're talking about.  Q. Do you know what a Burch colposuspension	19	<ul><li>A. With respect to the authors' names?</li><li>Q. Yes. Anything you can do to identify the</li></ul>
16 17 18 19 20	A. I don't know what non-mesh procedures you're talking about.  Q. Do you know what a Burch colposuspension is?	19 20	<ul><li>A. With respect to the authors' names?</li><li>Q. Yes. Anything you can do to identify the study so I can find it.</li></ul>
16 17 18 19 20 21 22	A. I don't know what non-mesh procedures you're talking about.  Q. Do you know what a Burch colposuspension	19 20 21	<ul><li>A. With respect to the authors' names?</li><li>Q. Yes. Anything you can do to identify the</li></ul>

Page 26 Page 28 1 if you recall anything off the top of your head. 1 floor? 2 A. Well, for me to identify these number of 2 A. I would say that vaginal scarring is a 3 studies, I would have to go through them because I 3 potential risk. 4 reviewed so much literature in preparation for --4 Q. And do you agree that infection is a 5 Q. I understand. 5 potential risk of non-mesh surgery in the pelvic 6 6 A. Okay. floor? 7 Q. Do you agree that acute or chronic 7 A. Yes. I would say that infection is a risk dyspareunia is a risk of non-mesh surgery of the 8 of basically any surgery regardless of where it's 9 9 pelvic floor? 10 10 MR. AYLSTOCK: Objection to form. Q. And do you agree that urinary problems, be 11 THE WITNESS: Could you repeat that? 11 it urinary frequency, urgency, dysuria, retention, 12 (The record was read as requested: 12 obstruction or incontinence, is a risk of non-mesh 13 "Do you agree that acute or chronic 13 surgery in the pelvic floor? THE WITNESS: I'm sorry. Could you 14 dyspareunia is a risk of non-mesh 14 15 surgery of the pelvic floor?") 15 repeat that? 16 A. I would say it can be, yes. 16 MR. AYLSTOCK: Objection. Form. 17 BY MR. THOMAS: 17 (The record was read as requested: Q. Do you agree that acute or chronic pain is 18 "And do you agree that urinary 18 19 a risk of non-mesh surgery in the pelvic floor? 19 problems, be it urinary frequency, MR. AYLSTOCK: Objection to form. 20 20 urgency, dysuria, retention, 21 A. Acute or chronic pain, in general, or ... 21 obstruction or incontinence, a risk of 22 BY MR. THOMAS: 22 non-mesh surgery in the pelvic 23 O. Yes. 23 floor?") 24 24 A. Like in your head? Pain can be anywhere, MR. AYLSTOCK: Objection. Form. Page 27 Page 29 so I don't -- that seems like a nonspecific 1 A. I would agree that urinary problems can be 1 2 question. I don't understand it. 2 a potential risk of surgery in the pelvic floor. 3 3 Q. What I'm trying to understand is when a BY MR. THOMAS: 4 4 person has surgery in the pelvic floor for the Q. Do you agree that organ or nerve damage are 5 treatment of stress urinary incontinence or pelvic 5 potential risks of surgery in the pelvic floor? 6 6 organ prolapse whether acute or chronic pain is a MR. AYLSTOCK: Objection to form. 7 7 potential risk from that surgery. A. I would want to know what organs you're 8 8 A. You can repeat the question all you want. talking about that would be dysfunctional. 9 9 But what I'm saying is, pain where? BY MR. THOMAS: 10 10 Q. Are there risks of injury to any organs in Pain can occur anywhere in your body, 11 so if you're going to ask me if pain is a 11 pelvic floor surgery? 12 complication of something, I need to know if you're 12 A. I would say organs that are in that 13 talking about pain in a particular location. 13 anatomic location. 14 Q. I'm sorry. I'll ask a better question. 14 Q. And the same with respect to nerves that 15 Do you agree that acute or chronic pain 15 are in that anatomic location. in the pelvic -- strike that. A. Correct. Nerves that are in that anatomic 16 16 17 Do you agree that acute or chronic pain 17 location can potentially be injured during the 18 in the pelvic floor is a risk of non-mesh surgery for 18 surgery. 19 the treatment of pelvic organ prolapse and stress 19 Q. Bleeding is a potential risk of non-mesh 20 urinary incontinence in the pelvic floor? 20 surgery in the pelvic floor? 2.1 A. Yes. I would say pain in the pelvic floor 21 MR. AYLSTOCK: Objection to form. 22 can be a risk. 22 A. Bleeding is a risk for any surgery 23 Q. Do you agree that vaginal scarring is a 23 regardless of location. 24 potential risk of non-mesh surgery in the pelvic 24

8 (Pages 26 to 29)

	Page 30		Page 32
1	BY MR. THOMAS:	1	MR. AYLSTOCK: Objection to form.
2	Q. Inflammation is a risk of non-mesh surgery	2	A. I would say they can be.
3	in the pelvic floor?	3	BY MR. THOMAS:
4	MR. AYLSTOCK: Objection to form.	4	Q. And are neuromuscular problems in the
5	A. Inflammation is a general process, it's not	5	abdominal area a potential risk of non-mesh surgery
6	really a risk.	6	in the pelvic floor?
7	BY MR. THOMAS:	7	MR. AYLSTOCK: Objection to form.
8	Q. Inflammation happens in connection with	8	A. I would say maybe the lower abdominal area
9	non-mesh surgery in the pelvic floor. Do you agree	9	it would be a potential risk.
10	with that?	10	BY MR. THOMAS:
11	A. Inflammation is a very broad subject. So	11	Q. And is there a risk of one or more
12	whether you're talking about transient inflammation	12	surgeries to treat an adverse event in non-mesh
13	or acute inflammation or granulomatous inflammation,		surgery in the pelvic floor?
14	it's a very general term.	14	MR. AYLSTOCK: Objection to form.
15	Q. All three of those that you just used are	15	A. I would say that's a general risk of any
16	risks of surgery risks of surgery for non-mesh	16	surgery.
17	surgery in the pelvic floor, aren't they?	17	BY MR. THOMAS:
18	MR. AYLSTOCK: Objection. Form.	18	Q. And is there a risk of recurrence or
19	A. I do not think so. You don't have a	19	failure in non-mesh surgery in the pelvic floor?
20	foreign body granulomatous inflammatory response if	20	MR. AYLSTOCK: Objection to form.
21	you're not using a foreign body.	21	THE WITNESS: Could you repeat that?
22	BY MR. THOMAS:	22	(The record was read as requested:
23	Q. To the extent there's sutures involved in	23	"And is there a risk of recurrence or
24	this surgery, it's a foreign body.	24	failure in non-mesh surgery in the
	Page 31		
	Dage 311		
1		1	Page 33
1	A. Well, sutures can be absorbable or	1	pelvic floor?")
2	A. Well, sutures can be absorbable or nonabsorbable.	2	pelvic floor?")  A. Recurrence or failure of what?
2 3	A. Well, sutures can be absorbable or nonabsorbable.  So if they're nonabsorbable, yes. If	2	pelvic floor?")  A. Recurrence or failure of what?  BY MR. THOMAS:
2 3 4	A. Well, sutures can be absorbable or nonabsorbable.  So if they're nonabsorbable, yes. If they're absorbable, once they're gone, no.	2 3 4	pelvic floor?")  A. Recurrence or failure of what?  BY MR. THOMAS:  Q. Whatever condition is being treated.
2 3 4 5	A. Well, sutures can be absorbable or nonabsorbable.  So if they're nonabsorbable, yes. If they're absorbable, once they're gone, no.  Q. Okay. Is fistula formation a risk of	2 3 4 5	pelvic floor?")  A. Recurrence or failure of what?  BY MR. THOMAS:  Q. Whatever condition is being treated.  A. I would say that's a potential risk.
2 3 4 5 6	A. Well, sutures can be absorbable or nonabsorbable.  So if they're nonabsorbable, yes. If they're absorbable, once they're gone, no.  Q. Okay. Is fistula formation a risk of non-mesh surgery in the pelvic floor?	2 3 4 5 6	pelvic floor?")  A. Recurrence or failure of what?  BY MR. THOMAS:  Q. Whatever condition is being treated.  A. I would say that's a potential risk.  Q. And in non-mesh surgery in the pelvic floor
2 3 4 5 6 7	A. Well, sutures can be absorbable or nonabsorbable.  So if they're nonabsorbable, yes. If they're absorbable, once they're gone, no.  Q. Okay. Is fistula formation a risk of non-mesh surgery in the pelvic floor?  A. I would think that fistula formation could	2 3 4 5 6 7	pelvic floor?")  A. Recurrence or failure of what?  BY MR. THOMAS:  Q. Whatever condition is being treated.  A. I would say that's a potential risk.  Q. And in non-mesh surgery in the pelvic floor using sutures or grafts. There's a potential risk
2 3 4 5 6 7 8	A. Well, sutures can be absorbable or nonabsorbable.  So if they're nonabsorbable, yes. If they're absorbable, once they're gone, no.  Q. Okay. Is fistula formation a risk of non-mesh surgery in the pelvic floor?  A. I would think that fistula formation could be a potential risk for non-mesh surgery in the	2 3 4 5 6 7 8	pelvic floor?")  A. Recurrence or failure of what? BY MR. THOMAS: Q. Whatever condition is being treated. A. I would say that's a potential risk. Q. And in non-mesh surgery in the pelvic floor using sutures or grafts. There's a potential risk of a foreign body response. Would you agree with
2 3 4 5 6 7 8 9	A. Well, sutures can be absorbable or nonabsorbable.  So if they're nonabsorbable, yes. If they're absorbable, once they're gone, no.  Q. Okay. Is fistula formation a risk of non-mesh surgery in the pelvic floor?  A. I would think that fistula formation could be a potential risk for non-mesh surgery in the pelvic floor.	2 3 4 5 6 7 8	pelvic floor?")  A. Recurrence or failure of what? BY MR. THOMAS: Q. Whatever condition is being treated. A. I would say that's a potential risk. Q. And in non-mesh surgery in the pelvic floor using sutures or grafts. There's a potential risk of a foreign body response. Would you agree with that?
2 3 4 5 6 7 8 9	A. Well, sutures can be absorbable or nonabsorbable.  So if they're nonabsorbable, yes. If they're absorbable, once they're gone, no.  Q. Okay. Is fistula formation a risk of non-mesh surgery in the pelvic floor?  A. I would think that fistula formation could be a potential risk for non-mesh surgery in the pelvic floor.  Q. Are neuromuscular problems a risk of	2 3 4 5 6 7 8 9	pelvic floor?")  A. Recurrence or failure of what? BY MR. THOMAS: Q. Whatever condition is being treated. A. I would say that's a potential risk. Q. And in non-mesh surgery in the pelvic floor using sutures or grafts. There's a potential risk of a foreign body response. Would you agree with that?  MR. AYLSTOCK: Objection to form.
2 3 4 5 6 7 8 9 10	A. Well, sutures can be absorbable or nonabsorbable.  So if they're nonabsorbable, yes. If they're absorbable, once they're gone, no.  Q. Okay. Is fistula formation a risk of non-mesh surgery in the pelvic floor?  A. I would think that fistula formation could be a potential risk for non-mesh surgery in the pelvic floor.  Q. Are neuromuscular problems a risk of surgery non-mesh surgery in the pelvic floor?	2 3 4 5 6 7 8 9 10	pelvic floor?")  A. Recurrence or failure of what? BY MR. THOMAS: Q. Whatever condition is being treated. A. I would say that's a potential risk. Q. And in non-mesh surgery in the pelvic floor using sutures or grafts. There's a potential risk of a foreign body response. Would you agree with that?  MR. AYLSTOCK: Objection to form. A. What kind of grafts?
2 3 4 5 6 7 8 9 10 11 12	A. Well, sutures can be absorbable or nonabsorbable.  So if they're nonabsorbable, yes. If they're absorbable, once they're gone, no.  Q. Okay. Is fistula formation a risk of non-mesh surgery in the pelvic floor?  A. I would think that fistula formation could be a potential risk for non-mesh surgery in the pelvic floor.  Q. Are neuromuscular problems a risk of surgery non-mesh surgery in the pelvic floor?  MR. AYLSTOCK: Objection to form.	2 3 4 5 6 7 8 9 10 11	pelvic floor?")  A. Recurrence or failure of what? BY MR. THOMAS: Q. Whatever condition is being treated. A. I would say that's a potential risk. Q. And in non-mesh surgery in the pelvic floor using sutures or grafts. There's a potential risk of a foreign body response. Would you agree with that?  MR. AYLSTOCK: Objection to form. A. What kind of grafts? BY MR. THOMAS:
2 3 4 5 6 7 8 9 10 11 12 13	A. Well, sutures can be absorbable or nonabsorbable.  So if they're nonabsorbable, yes. If they're absorbable, once they're gone, no.  Q. Okay. Is fistula formation a risk of non-mesh surgery in the pelvic floor?  A. I would think that fistula formation could be a potential risk for non-mesh surgery in the pelvic floor.  Q. Are neuromuscular problems a risk of surgery non-mesh surgery in the pelvic floor?  MR. AYLSTOCK: Objection to form.  A. I don't know what kind of neuromuscular	2 3 4 5 6 7 8 9 10 11 12	pelvic floor?")  A. Recurrence or failure of what? BY MR. THOMAS: Q. Whatever condition is being treated. A. I would say that's a potential risk. Q. And in non-mesh surgery in the pelvic floor using sutures or grafts. There's a potential risk of a foreign body response. Would you agree with that?  MR. AYLSTOCK: Objection to form. A. What kind of grafts? BY MR. THOMAS: Q. Any foreign body that you're putting in
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Page 34 Page 36 1 MR. AYLSTOCK: Objection to form. 1 pores should be? 2 2 A. I didn't specifically pay attention to Completely vague. 3 3 A. It would depend on the exact type of numbers with respect to pore sizes. surgery and where those grafts or sutures are. 4 Q. But, do you, as you sit here today, have an 4 5 BY MR. THOMAS: 5 opinion about how large the pore needs to be so that 6 6 Q. Is there a risk of contraction of or these issues that you just identified with the pore 7 7 size don't occur? shrinkage of tissues in non-mesh surgery involving A. I just said that I don't have any specifics 8 the pelvic floor? 8 9 MR. AYLSTOCK: Objection to form. 9 with regards to the numbers, the sizes of the pores. 10 A. Well, with respect to scars, you can have a 10 Q. No matter what the size of the pore, in 11 contracture of a scar. I guess it just is different 11 your opinion, is there still a risk of the issues 12 with respect to quality and quantity of the 12 you just described from the use of any mesh for the 13 contracture. 13 treatment of conditions in the pelvic floor? 14 14 MR. AYLSTOCK: Objection to form. BY MR. THOMAS: 15 Q. Let's go to Exhibit 3, please. In 15 A. Well, I would say with regards to that question the keyword would be "any." So there could 16 Exhibit No. 3 you discuss the issue related to pore 16 17 size in mesh. Fair? 17 be any risk, it's just depending on the amount. 18 BY MR. THOMAS: 18 A. I would say in very vague terms, yes. 19 Q. What did you know about issues related to 19 Q. What do you look for in pathology for 20 pore size before your work in this case? 20 evidence that pores in the mesh are causing a 21 A. Very little general information. 21 complication? 22 Q. What did you know before your work in this 22 A. Well, under the microscope I would look at 23 case? 23 the tissue between the filaments which represents 24 24 the pores, or the filament spaces which would A. That pore size varied based on the mesh. Page 35 Page 37 1 Q. Is that all you knew before your work in 1 represent the pores, and see what kind of tissue is 2 this case? 2 between those and associated with those. 3 3 MR. AYLSTOCK: Objection to form. Q. What kind of tissue do you want to see to 4 A. And that there were differences with them. 4 show that there are no complications? 5 But I didn't know specific differences until I 5 MR. AYLSTOCK: Objection to form. started reading the literature with respect to this 6 6 THE WITNESS: Could you repeat that? 7 litigation. 7 THE REPORTER: Yes. 8 BY MR. THOMAS: 8 (The record was read as requested: 9 9 Q. Okay. After you began your work on this "What kind of tissue do you want to 10 litigation and you reviewed the litigation --10 see to show that there are no 11 reviewed the literature, what is the problem with 11 complications?") 12 pore size? What is the issue? 12 A. I don't think there would be any tissue 13 A. Well, I would say the main issue, from my 13 that would confirm that there are zero 14 point of view as a pathologist, is that the smaller 14 complications. 15 the pore size, the less likely you can have adipose 15 BY MR. THOMAS: 16 tissue infiltrate into those pores between the Q. Okay. Let me ask this question. I 16 probably asked a bad question. 17 filaments, and so there's much more likely to have 17 18 bridging fibrosis between the filaments which will 18 What tissue are you looking for to 19 identify any risk of complications from pore size? make the mesh less pliable, firmer, and also create 19 20 a microenvironment where it's basically a MR. AYLSTOCK: Objection to form. 20 21 constricting compartment-type syndrome with respect 21 A. Well, again, I would say if I'm looking at 22 to the tissue that's able to infiltrate and 22 the tissue and the mesh, that there's a problem with 23 23 the mesh. There was a problem that was identified incorporate within the pores. 24 Q. Do you have an opinion about how large the 24 by the clinician with that mesh, depending on the

Page 38 Page 40 1 clinical scenario, of course, and this isn't an 1 condition. It's more of a consequence or a finding 2 autopsy and I'm looking at mesh. 2 where based on typically scar formation, you have a 3 3 So I would say features that would be contracture or compression or shrinking, so to 4 most commonly associated with better incorporation 4 speak, of tissue where it comes together, is firm 5 of mesh would be seeing abundant adipose tissue in 5 and, I guess, less mobile. 6 between the filaments which would indicate that 6 Q. Again, is this an issue that you learned 7 there would maybe be possibly less constriction 7 from the literature or an issue that you learned 8 within those pores. 8 about from your own experience? 9 THE WITNESS: Can we get some more 9 A. About contracture in mesh? Or contracture 10 10 water? in general? 11 MR. AYLSTOCK: Sure. 11 Q. Contracture in mesh. 12 MR. THOMAS: There's a refrigerator 12 A. Well, I would say both. I would say my 13 full of it. 13 experience as a pathologist when I've examined mesh MR. AYLSTOCK: And any time you want 14 14 as a day-to-day workload issue, you can see that 15 to take a break. 15 it's not normal mesh and that it's crinkled and 16 THE WITNESS: I'm fine. 16 contracted, irregular, deformed. I would say all of 17 17 (Pause in proceedings.) those would correspond to that finding or 18 THE WITNESS: All right. Thank you. 18 consequence of contracture. 19 BY MR. THOMAS: 19 Q. Every time that you've looked at mesh in 20 Q. In your general report, Exhibit No. 3, you 20 your work as a pathologist, has it been in a also discussed issues of the weight of the mesh. 21 21 histopathological slide? 22 22 What is your criticism about the weight A. No. 23 of mesh? 23 MR. AYLSTOCK: Objection to form. 24 24 MR. AYLSTOCK: You mean page number 35 /// Page 39 Page 41 1 1 MR. THOMAS: Page 3, Exhibit 3. BY MR. THOMAS: 2 A. Well, as I stated, mesh that has a lighter 2 Q. Have you looked at any mesh other than mesh 3 weight has better tissue integration with less 3 that had already been affixed in formalin? 4 4 inflammation and scar formation, and is more likely A. Yes. 5 to remain more pliable over time than a 5 Q. Have you looked at pelvic floor explants -analyzed pelvic floor explants before they've been 6 heavier-weight mesh. 6 7 BY MR. THOMAS: 7 fixed in formalin? 8 8 MR. AYLSTOCK: Objection to form. Q. Are those statements in your report that 9 9 you just referred to, are those based on your review A. Grossly, yes. 10 of the literature or based upon your own experience? 10 BY MR. THOMAS: 11 A. Based on my review of the literature. Q. Okay. And under what circumstances would 11 12 Q. You've not done a comparative study of 12 you, as a pathologist, look at pelvic floor explants 13 different weight meshes to see how they perform in 13 before they've been fixed in formalin? 14 the pelvic floor. Is that fair? 14 A. When it comes from the surgeon and we 15 A. That's correct. I have not done my own 15 examine it grossly before formalin's been added. 16 16 Q. You told me before that you think about study. 17 Q. And you've not done any kind of study on 17 over the last seven or eight years you've maybe 18 your own to determine how different pore sizes 18 looked at about two dozen pelvic floor mesh 19 19 perform in the pelvic floor. Is that correct? explants. How many times have those mesh explants 20 20 A. That's correct. been delivered to you without being placed in 21 21 Q. You also discuss in your report the risk of formalin? 22 a condition known as contracture. What is 22 MR. AYLSTOCK: Objection to form. 23 23 A. I don't know. I would say maybe half of contracture? 24 A. I don't know if I would call it a 24 the times that I initially examined them and then

11 (Pages 38 to 41)

Page 42 Page 44 1 added the formalin to the container. 1 Q. And you understand that formalin fixation 2 BY MR. THOMAS: 2 will cause excised tissue to contract due to the 3 3 Q. Do you agree that when mesh that's been cross-linking of the proteins and the collagen? 4 implanted in the pelvic floor is removed from the 4 MR. AYLSTOCK: Objection to form. 5 5 body that the tissues surrounding the mesh contract? A. I haven't specifically read those details 6 MR. AYLSTOCK: Objection to form. 6 about mesh and formalin fixation and, quote/unquote, 7 7 A. I don't understand that question. "contracting." 8 BY MR. THOMAS: 8 BY MR. THOMAS: 9 Q. Okay. You understand that when mesh is 9 Q. Do you have reason to disagree with that implanted in the pelvic floor that the tissue grows 10 10 statement? 11 in through the pores of the mesh and -- grows 11 A. Well, I would have to see the data and the studies that have -- the biochemical studies. I'm 12 through the pores of the mesh? 12 13 A. Yes. 13 not, you know, a polymer scientist, so I don't have all those studies off the top of my head. 14 O. And then when mesh is removed, when the 14 15 tissue and the elastins in the tissue are released 15 Q. As a part of your work in this case, have 16 from the body, that the mesh itself with the tissue 16 you analyzed how various meshes are implanted in the 17 then contracts before it's placed in formalin. Do 17 18 you agree with that? 18 A. I would say generally speaking. 19 MR. AYLSTOCK: Objection to form. 19 Q. And how did you familiarize yourself with 20 A. I don't know that I would use the word 20 the mesh implantation process? 21 "contract" in that -- I guess --21 A. I watched some videos. I know from my own 22 22 I guess I could say that it changes experience as a physician, both in medical school 23 shape or maybe is deformed. But when I am thinking 23 and doing internships, I've witnessed some of these 24 of -- when we're discussing contracture, I'm 24 types of procedures during urology. Page 43 Page 45 1 1 thinking more of the pathophysiologic fibrosis that I would say kind of over the years I 2 draws the tissue together. But does it change shape 2 have had different experiences that have 3 3 familiarized myself with those types of surgical after its out of the body artifactually based on the 4 circumstances that it was in both in vivo and then 4 procedures. 5 5 Q. Do you remember the videos you watched? outside? Yes. 6 BY MR. THOMAS: 6 A. I don't remember the specific videos. 7 7 Q. I didn't see them on your reliance list. Q. Okay. And why does that happen? 8 A. Well, that happens with almost any type of 8 A. Well, I didn't also put my urology rotation 9 9 specimen, that when you remove it, there is a change in medical school on my reliance list, but that's --10 in the way the tissue is laying, in the way the 10 Q. But you've reviewed these videos in 11 tissue is shaped. And it's because in the body 11 connection with your work in this case, didn't you? 12 when -- before a particular type of tissue, whatever 12 MR. CURTIS: Objection. Let him 13 it is, is removed, it's within a structural 13 answer. 14 framework. And once you remove that structural 14 A. Yeah. 15 15 So no. In the past -- I would say in framework, there are natural consequences to taking 16 the past and in connection with this case, there are that out and it no longer looks the same as when it 16 17 was in the body. 17 several different types of experiences that I've had 18 Q. And when you then take the explant and 18 that have formed my, I guess, familiarity with the 19 place it in formalin, you understand that formalin 19 procedures. 20 reacts with the proteins on the mesh to fix the 20 BY MR. THOMAS: 21 specimen. 21 Q. Have you familiarized yourself with the 22 A. The proteins that are in the tissue, the 22 mesh removal process? 23 tissue changes predominantly, and that's with any 23 A. I would say that mesh is removed in 24 tissue in formalin, yes. 24 different ways, so I don't know if there is an exact

12 (Pages 42 to 45)

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Page 46

1 process of how a mesh, from one patient to another, 2 is removed.

Q. Fair enough.

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Have you made any attempt to study the different ways that mesh may be explanted from the pelvic floor?

- A. I don't really understand that question.
- That's like -- I don't understand that question.
- Q. What don't you understand?

A. Well, it's like asking me have I studied the ways that I can walk from point A to point B.

It depends on how mesh is removed; it depends on where it is in the body, and what vital structures it's next to. And if it's eroded into the rectum, has it eroded into the vagina? Has it eroded into the urethra? Has it eroded into the bladder? Has it ruptured a vessel?

I mean, how it will be removed surgically, even though I'm not a surgeon, it's clear that it would be completely based on the anatomic location that mesh had eroded into.

22 Q. In connection with your work on the six 23 cases for which you've given opinions in this

24 litigation, have you studied the methodology used by Page 48

- 1 A. Well, we want others to do them; not that I 2 allow them.
- 3 Q. Why do you want others to do them?
  - A. Because that's what they do for a living and my focus is diagnostics.
    - Q. Have you studied the effect of the slide preparation process on the polypropylene mesh in the slides that you looked at in this litigation?
    - A. I reviewed some studies that addressed both polypropylene material being -- maybe changes that occurred, or that were thought to have occurred because of the processing, and then other studies that looked at the polypropylene without any sort of processing. I've looked at, I think, both of those types of studies.
- 16 Q. Are those peer-reviewed studies or are 17 those expert opinion reports?
- 18 A. I thought they were peer-reviewed studies.
- 19 Q. Would those studies be in your reliance 20
- list, Exhibit No. 4?
- A. I don't know. I think so, maybe. 21
- 22 Q. Okay. And do you recall what you concluded 23 from your review of the studies about any impact 24 that the slide preparation process may have on the

Page 47

- 1 the surgeon to remove the mesh?
- 2 A. Well, I read the operative reports.
- 3 Q. Anything else?
  - A. Not that I can recall, other than reading
- 5 the operative reports that were associated with the
- 6 procedures.
- 7 Q. Doctor, do you consider yourself
- 8 knowledgeable about the pathology slide preparation
- 9
- 10 A. I would say I have a general knowledge, but
- 11 I don't participate in that as a pathologist.
- 12 Q. Have you ever, yourself, processed
- 13 histology slides from pathology?
  - A. Processed in what respect?
- 15 Q. Put the tissue in a paraffin block.
- A. I've put the tissue in the block and then I 16
- 17 have loaded the cassettes in the past into the
- 18 processor and taken them out, but I've never
- 19 actually inserted the paraffin into the block once
- 20 the tissue has been finally processed.
- 21 Q. Do you do the microtoming?
- 22 A. I have in the past.
- 23 Q. Is that something you typically allow
- 24 others to do now?

Page 49 polypropylene that you analyzed in connection with

these cases?

3 A. Well, my conclusion was that, based on what 4 I was seeing and what you see in general under light

5 microscopy, with regards to the characteristics of

6 the polypropylene that it was not significantly 7

influenced based on the processing.

- Q. I believe you just told me it was based on your review of the slides. What I'm interested --
  - A. And the literature.
- Q. And what I'm interested in is what did the literature tell you about the impact of the slide

preparation process on the polypropylene that you

14 were looking at in connection with these cases? 15

MR. AYLSTOCK: Objection to form. I think he's already answered that.

17 A. When I form an opinion it's based on

18 everything, it's not based on just one thing. So I 19 don't remember what I was specifically thinking when

20 I was just looking at one or a couple of studies.

21 But my general opinion with regards to that subject

22 is what I just said.

23 BY MR. THOMAS:

24 Q. Okay. And when you say it's not

13 (Pages 46 to 49)

Page 50 Page 52 1 significantly affected, do you have any opinions it 1 that fair? 2 affected at all? 2 A. Yes. I would say that's fair. We take all 3 3 MR. AYLSTOCK: Objection to form. of that into consideration. 4 A. Well, I think the slide processing in 4 Q. Prior to your work in this case, had you 5 5 pathology in general is, you know, a process that read anywhere that as polypropylene mesh degraded 6 6 has gone on for years, and we know that it changes in vivo? A. You said "mesh"? 7 everything. It changes DNA, RNA, proteins; it 7 changes antigen retrieval. But what is important is 8 O. Yes. 9 if there's any substantive changes to the tissues. 9 A. I don't recall seeing anything or having 10 So, for example, if I'm looking at a 10 remembered reading anything about mesh, in general, 11 breast cancer and it's been in formalin for a day, 11 that's derived from polypropylene, but suture 12 does that change the proteins of that cancer that it 12 material, yes. 13 expresses? Yes. Does it change it to the respect 13 Q. And when you talk about suture material, 14 that it would impact anything negatively or change are you talking about polypropylene suture material? 14 15 anything in a clinically significant way? No. 15 A. Well, in general, yes. 16 And I would say the same thing with 16 I would say I've read about different 17 17 any type of tissue or synthetic material, that, you types of both absorbable and nonabsorbable suture material and other types of material that can be 18 know, does the processing maybe change something at 18 19 a molecular or biochemical level. I would imagine 19 implanted and how it degrades. 20 20 that it would. There's different chemicals that are Q. Prior to your work in this case, what was 21 being exposed to it, but does it make it look one 21 your knowledge about Prolene mesh or sutures 22 22 way versus another? No. I would say, no. degrading in the body? 23 BY MR. THOMAS: 23 MR. AYLSTOCK: Objection to form. 24 Q. Does the microtoming process make the 24 A. Prolene, you mean like with a capital "P," Page 51 Page 53 appearance of the tissue change from the way it was 1 1 Prolene, from polypropylene or ... 2 in vivo to the way it is under the slide? 2 BY MR. THOMAS: 3 3 MR. AYLSTOCK: Objection to form. Q. Correct. Prolene --4 A. I would say the microtoming process can. 4 Did you know that "Prolene" is the 5 5 brand name for Ethicon's polypropylene? But usually, as a pathologist, you can identify when 6 6 there are folds in the tissue as opposed to A. Yes. That's why I was clarifying. 7 7 something that is occurring biologically or I don't specifically remember seeing 8 8 pathologically. the brand name. 9 9 Q. What about polypropylene, generally? What BY MR. THOMAS: 10 Q. There are artifacts that can occur in the 10 is your recollection before this litigation about your knowledge of polypropylene mesh or sutures 11 microtoming process that pathologists can detect. 11 12 A. That was a statement; are you asking a 12 degrading in the body? 13 question? 13 A. That the sutures can. That was before this 14 Q. Yes. 14 litigation that they can degrade. 15 15 Q. In what context? Is that true? A. So yes. In any type of specimen, there are A. In what context "what"? 16 16 17 artifacts that we can see and are comfortable 17 How does it happen? 18 usually identifying that are artifacts of the 18 Q. What do you remember that you read that the 19 microtoming process and of the fixation process and 19 polypropylene sutures degraded? 20 20 of the staining process. A. I didn't read about -- I don't remember 21 21 Q. Each one of those three is capable of reading about the biochemical consequences or 22 producing artifacts, and it's the job of the 22 mechanisms, just that it can. 23 pathologist to identify those artifacts and take 23 From a pathologist's point of view those into consideration with your analysis. Is 24 24 with respect to recognizing changes in the tissue,

	Page 54		Page 56
1	because we not infrequently will see suture material	1	be the mechanisms of this degradation
2	in all types of excisions.	2	over time?")
3	Q. Prior to your work in this case, have you	3	MR. AYLSTOCK: Same objection.
4	ever analyzed polypropylene mesh to determine the	4	A. I don't know if I've specifically studied
5	extent to which it may have degraded in the body?	5	that. I mean, there have been probably basic
6	A. No. I don't recall having done that	6	general discussions about biologic mechanisms that
7	before.	7	contribute to degradation of foreign material in
8	Q. Prior to your work in this case, have you	8	general, but I wouldn't say that I specifically
9	ever analyzed polypropylene sutures to determine the	9	analyzed those.
10	extent to which they may have degraded in the body?	10	BY MR. THOMAS:
11	A. I would say I haven't analyzed them with	11	Q. If you go to page 5 of Exhibit No. 3.
12	respect to extent, just known that it occurs can	12	A. Okay.
13	occur after a period of time and will have seen	13	Q. And the paragraph beginning "Finally," you
14	suture material microscopically, but not more than	14	talk about degradation.
15	that.	15	These are all strike that.
16	Q. And those times that you've just described,	16	The papers and the documents that are
17	is that in connection with your work as a	17	listed in that paragraph, are those things that you
18	pathologist?	18	reviewed in connection with your work in this
19	A. Yes.	19	litigation specifically. Is that fair?
20	Q. And do you remember the specifics of those	20	A. They're some of them, yes.
21	circumstances where you recall seeing polypropylene	21	Q. Okay. But there's nothing in paragraph
22	sutures degrade?	22	in that paragraph that you had reviewed and read
23	A. They were in the setting of a prior	23	prior to the time of your work in this litigation.
24	abdominal surgery, from my recollection, and it was	24	Is that fair?
	Page 55		Page 57
1	a re-excision of a tumor that had recurred. And	1	MR. AYLSTOCK: Objection to form.
2	there was a discussion in the past about this is	_	
_		2	A. Let me read the paragraph.
3	_	2 3	A. Let me read the paragraph. BY MR. THOMAS:
3 4	more of an academic discussion about focusing on the		BY MR. THOMAS:
	more of an academic discussion about focusing on the suture material and the types of foreign body	3	* * *
4	more of an academic discussion about focusing on the	3 4	BY MR. THOMAS: Q. I'm referring to the studies in the Ethicon documents themselves.
4 5	more of an academic discussion about focusing on the suture material and the types of foreign body responses and what to look for as a pathologist, and what can be associated with them, et cetera.	3 4 5	BY MR. THOMAS: Q. I'm referring to the studies in the Ethicon documents themselves. A. You're referring to what?
4 5 6	more of an academic discussion about focusing on the suture material and the types of foreign body responses and what to look for as a pathologist, and	3 4 5 6	BY MR. THOMAS: Q. I'm referring to the studies in the Ethicon documents themselves. A. You're referring to what? Q. Let me ask the question again, Doctor. I'm
4 5 6 7	more of an academic discussion about focusing on the suture material and the types of foreign body responses and what to look for as a pathologist, and what can be associated with them, et cetera.  Q. What conclusions did you reach about the	3 4 5 6 7	BY MR. THOMAS: Q. I'm referring to the studies in the Ethicon documents themselves. A. You're referring to what? Q. Let me ask the question again, Doctor. I'm trying to make it simple.
4 5 6 7 8	more of an academic discussion about focusing on the suture material and the types of foreign body responses and what to look for as a pathologist, and what can be associated with them, et cetera.  Q. What conclusions did you reach about the use of polypropylene sutures in the body following	3 4 5 6 7 8	BY MR. THOMAS: Q. I'm referring to the studies in the Ethicon documents themselves. A. You're referring to what? Q. Let me ask the question again, Doctor. I'm
4 5 6 7 8 9	more of an academic discussion about focusing on the suture material and the types of foreign body responses and what to look for as a pathologist, and what can be associated with them, et cetera.  Q. What conclusions did you reach about the use of polypropylene sutures in the body following that experience as a pathologist?	3 4 5 6 7 8 9	BY MR. THOMAS: Q. I'm referring to the studies in the Ethicon documents themselves. A. You're referring to what? Q. Let me ask the question again, Doctor. I'm trying to make it simple. In this paragraph on page 5 you list a
4 5 6 7 8 9	more of an academic discussion about focusing on the suture material and the types of foreign body responses and what to look for as a pathologist, and what can be associated with them, et cetera.  Q. What conclusions did you reach about the use of polypropylene sutures in the body following that experience as a pathologist?  A. I wouldn't say there were any dramatic	3 4 5 6 7 8 9	BY MR. THOMAS: Q. I'm referring to the studies in the Ethicon documents themselves. A. You're referring to what? Q. Let me ask the question again, Doctor. I'm trying to make it simple. In this paragraph on page 5 you list a number of papers. Correct?
4 5 6 7 8 9 10	more of an academic discussion about focusing on the suture material and the types of foreign body responses and what to look for as a pathologist, and what can be associated with them, et cetera.  Q. What conclusions did you reach about the use of polypropylene sutures in the body following that experience as a pathologist?  A. I wouldn't say there were any dramatic conclusions, just that it could degrade over time.	3 4 5 6 7 8 9 10	BY MR. THOMAS: Q. I'm referring to the studies in the Ethicon documents themselves. A. You're referring to what? Q. Let me ask the question again, Doctor. I'm trying to make it simple. In this paragraph on page 5 you list a number of papers. Correct? A. Yes.
4 5 6 7 8 9 10 11	more of an academic discussion about focusing on the suture material and the types of foreign body responses and what to look for as a pathologist, and what can be associated with them, et cetera.  Q. What conclusions did you reach about the use of polypropylene sutures in the body following that experience as a pathologist?  A. I wouldn't say there were any dramatic conclusions, just that it could degrade over time.  Q. And other than your work in this case, have	3 4 5 6 7 8 9 10 11	BY MR. THOMAS: Q. I'm referring to the studies in the Ethicon documents themselves. A. You're referring to what? Q. Let me ask the question again, Doctor. I'm trying to make it simple. In this paragraph on page 5 you list a number of papers. Correct? A. Yes. Q. Those papers were supplied to you by
4 5 6 7 8 9 10 11 12 13	more of an academic discussion about focusing on the suture material and the types of foreign body responses and what to look for as a pathologist, and what can be associated with them, et cetera.  Q. What conclusions did you reach about the use of polypropylene sutures in the body following that experience as a pathologist?  A. I wouldn't say there were any dramatic conclusions, just that it could degrade over time.  Q. And other than your work in this case, have you studied what are alleged to be the mechanisms of	3 4 5 6 7 8 9 10 11 12	BY MR. THOMAS: Q. I'm referring to the studies in the Ethicon documents themselves. A. You're referring to what? Q. Let me ask the question again, Doctor. I'm trying to make it simple. In this paragraph on page 5 you list a number of papers. Correct? A. Yes. Q. Those papers were supplied to you by counsel as a part of your work in this litigation.
4 5 6 7 8 9 10 11 12 13 14	more of an academic discussion about focusing on the suture material and the types of foreign body responses and what to look for as a pathologist, and what can be associated with them, et cetera.  Q. What conclusions did you reach about the use of polypropylene sutures in the body following that experience as a pathologist?  A. I wouldn't say there were any dramatic conclusions, just that it could degrade over time.  Q. And other than your work in this case, have you studied what are alleged to be the mechanisms of this degradation over time?	3 4 5 6 7 8 9 10 11 12 13	BY MR. THOMAS: Q. I'm referring to the studies in the Ethicon documents themselves. A. You're referring to what? Q. Let me ask the question again, Doctor. I'm trying to make it simple. In this paragraph on page 5 you list a number of papers. Correct? A. Yes. Q. Those papers were supplied to you by counsel as a part of your work in this litigation. A. I don't know if all the papers were.
4 5 6 7 8 9 10 11 12 13 14	more of an academic discussion about focusing on the suture material and the types of foreign body responses and what to look for as a pathologist, and what can be associated with them, et cetera.  Q. What conclusions did you reach about the use of polypropylene sutures in the body following that experience as a pathologist?  A. I wouldn't say there were any dramatic conclusions, just that it could degrade over time.  Q. And other than your work in this case, have you studied what are alleged to be the mechanisms of this degradation over time?  MR. AYLSTOCK: Objection to form.	3 4 5 6 7 8 9 10 11 12 13 14	BY MR. THOMAS: Q. I'm referring to the studies in the Ethicon documents themselves. A. You're referring to what? Q. Let me ask the question again, Doctor. I'm trying to make it simple. In this paragraph on page 5 you list a number of papers. Correct? A. Yes. Q. Those papers were supplied to you by counsel as a part of your work in this litigation. A. I don't know if all the papers were. Q. Do you recall seeing any of those papers
4 5 6 7 8 9 10 11 12 13 14 15 16	more of an academic discussion about focusing on the suture material and the types of foreign body responses and what to look for as a pathologist, and what can be associated with them, et cetera.  Q. What conclusions did you reach about the use of polypropylene sutures in the body following that experience as a pathologist?  A. I wouldn't say there were any dramatic conclusions, just that it could degrade over time.  Q. And other than your work in this case, have you studied what are alleged to be the mechanisms of this degradation over time?  MR. AYLSTOCK: Objection to form.  A. With this case? Or litigation?	3 4 5 6 7 8 9 10 11 12 13 14 15	BY MR. THOMAS: Q. I'm referring to the studies in the Ethicon documents themselves. A. You're referring to what? Q. Let me ask the question again, Doctor. I'm trying to make it simple. In this paragraph on page 5 you list a number of papers. Correct? A. Yes. Q. Those papers were supplied to you by counsel as a part of your work in this litigation. A. I don't know if all the papers were. Q. Do you recall seeing any of those papers prior to your work in this litigation?
4 5 6 7 8 9 10 11 12 13 14 15 16	more of an academic discussion about focusing on the suture material and the types of foreign body responses and what to look for as a pathologist, and what can be associated with them, et cetera.  Q. What conclusions did you reach about the use of polypropylene sutures in the body following that experience as a pathologist?  A. I wouldn't say there were any dramatic conclusions, just that it could degrade over time.  Q. And other than your work in this case, have you studied what are alleged to be the mechanisms of this degradation over time?  MR. AYLSTOCK: Objection to form.  A. With this case? Or litigation?  BY MR. THOMAS:	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	BY MR. THOMAS: Q. I'm referring to the studies in the Ethicon documents themselves. A. You're referring to what? Q. Let me ask the question again, Doctor. I'm trying to make it simple. In this paragraph on page 5 you list a number of papers. Correct? A. Yes. Q. Those papers were supplied to you by counsel as a part of your work in this litigation. A. I don't know if all the papers were. Q. Do you recall seeing any of those papers prior to your work in this litigation? MR. CURTIS: I apologize. I'm
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	more of an academic discussion about focusing on the suture material and the types of foreign body responses and what to look for as a pathologist, and what can be associated with them, et cetera.  Q. What conclusions did you reach about the use of polypropylene sutures in the body following that experience as a pathologist?  A. I wouldn't say there were any dramatic conclusions, just that it could degrade over time.  Q. And other than your work in this case, have you studied what are alleged to be the mechanisms of this degradation over time?  MR. AYLSTOCK: Objection to form.  A. With this case? Or litigation?  BY MR. THOMAS: Q. Litigation.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	BY MR. THOMAS: Q. I'm referring to the studies in the Ethicon documents themselves. A. You're referring to what? Q. Let me ask the question again, Doctor. I'm trying to make it simple. In this paragraph on page 5 you list a number of papers. Correct? A. Yes. Q. Those papers were supplied to you by counsel as a part of your work in this litigation. A. I don't know if all the papers were. Q. Do you recall seeing any of those papers prior to your work in this litigation? MR. CURTIS: I apologize. I'm confused. Are you talking about the Ethicon-only
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	more of an academic discussion about focusing on the suture material and the types of foreign body responses and what to look for as a pathologist, and what can be associated with them, et cetera.  Q. What conclusions did you reach about the use of polypropylene sutures in the body following that experience as a pathologist?  A. I wouldn't say there were any dramatic conclusions, just that it could degrade over time.  Q. And other than your work in this case, have you studied what are alleged to be the mechanisms of this degradation over time?  MR. AYLSTOCK: Objection to form.  A. With this case? Or litigation?  BY MR. THOMAS:  Q. Litigation.  A. Oh.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MR. THOMAS: Q. I'm referring to the studies in the Ethicon documents themselves. A. You're referring to what? Q. Let me ask the question again, Doctor. I'm trying to make it simple. In this paragraph on page 5 you list a number of papers. Correct? A. Yes. Q. Those papers were supplied to you by counsel as a part of your work in this litigation. A. I don't know if all the papers were. Q. Do you recall seeing any of those papers prior to your work in this litigation? MR. CURTIS: I apologize. I'm confused. Are you talking about the Ethicon-only documents?
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	more of an academic discussion about focusing on the suture material and the types of foreign body responses and what to look for as a pathologist, and what can be associated with them, et cetera.  Q. What conclusions did you reach about the use of polypropylene sutures in the body following that experience as a pathologist?  A. I wouldn't say there were any dramatic conclusions, just that it could degrade over time.  Q. And other than your work in this case, have you studied what are alleged to be the mechanisms of this degradation over time?  MR. AYLSTOCK: Objection to form.  A. With this case? Or litigation?  BY MR. THOMAS: Q. Litigation. A. Oh. THE WITNESS: Can you repeat that?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	BY MR. THOMAS:  Q. I'm referring to the studies in the Ethicon documents themselves.  A. You're referring to what?  Q. Let me ask the question again, Doctor. I'm trying to make it simple.  In this paragraph on page 5 you list a number of papers. Correct?  A. Yes.  Q. Those papers were supplied to you by counsel as a part of your work in this litigation.  A. I don't know if all the papers were.  Q. Do you recall seeing any of those papers prior to your work in this litigation?  MR. CURTIS: I apologize. I'm confused. Are you talking about the Ethicon-only documents?  MR. THOMAS: I'm talking about the
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	more of an academic discussion about focusing on the suture material and the types of foreign body responses and what to look for as a pathologist, and what can be associated with them, et cetera.  Q. What conclusions did you reach about the use of polypropylene sutures in the body following that experience as a pathologist?  A. I wouldn't say there were any dramatic conclusions, just that it could degrade over time.  Q. And other than your work in this case, have you studied what are alleged to be the mechanisms of this degradation over time?  MR. AYLSTOCK: Objection to form.  A. With this case? Or litigation?  BY MR. THOMAS: Q. Litigation. A. Oh.  THE WITNESS: Can you repeat that? THE REPORTER: Yes.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MR. THOMAS:  Q. I'm referring to the studies in the Ethicon documents themselves.  A. You're referring to what?  Q. Let me ask the question again, Doctor. I'm trying to make it simple.  In this paragraph on page 5 you list a number of papers. Correct?  A. Yes.  Q. Those papers were supplied to you by counsel as a part of your work in this litigation.  A. I don't know if all the papers were.  Q. Do you recall seeing any of those papers prior to your work in this litigation?  MR. CURTIS: I apologize. I'm confused. Are you talking about the Ethicon-only documents?  MR. THOMAS: I'm talking about the papers now. I haven't talked about the Ethicon

15 (Pages 54 to 57)

Page 58 Page 60 1 BY MR. THOMAS: 1 A. Well, that would be, I guess, the Q. Okay. What is the clinical significance of 2 pathological features which would correlate with 2 3 3 the degradation that you describe in paragraph -- in other clinical symptoms. 4 4 that paragraph on page 5 of the report? Q. Okay. Let me ask it this way, then: 5 5 MR. AYLSTOCK: Are you talking about Is it fair to understand from your б 6 the "Finally" paragraph? perspective as a pathologist that the significance of 7 MR. THOMAS: I'm talking about 7 the degradation to you would be an increased 8 degradations. 8 inflammatory response and increased scarring? 9 9 A. I would say those would be the main things, BY MR. THOMAS: 10 10 O. But let me ask it this way: ves. 11 What is the clinical significance of 11 Q. And however those manifested themselves in 12 12 patients would be another issue? what you describe as degradation in your report? 13 13 A. I would say the clinical significance with A. Correct. 14 respect to degradation is that once you're degrading 14 Q. All right. Are you aware of any scientific 15 a foreign body and it breaks apart, there's a 15 study published anywhere that describes the clinical 16 greater surface area now to that foreign body that's 16 significance that you've just related to 17 17 in connection and in affiliation with the tissue. degradation? 18 18 So that would increase the inflammatory response, A. I've seen it described. It's not like I 19 19 because now you have new foreign antigens that are just made that up. So yeah. I have. I just -- I 20 in, I guess, direct contact with the tissue. 20 don't know -- I wouldn't know who's the author. 21 That would then increase the 21 Q. Okay. Did you know this information or 22 inflammatory response, and that increased 22 have this opinion prior to your work in this case? 23 inflammatory response would potentially or likely, 23 A. Well, I would have that general opinion, 24 but I hadn't specifically studied it prior to this given the severity of it, lead to additional damage 24 Page 59 Page 61 1 to the remaining polypropylene or foreign material. 1 case in the depth that I have, no. 2 And then that would then lead to more breakdown and 2 Q. What is your knowledge of the extent to 3 more degradation, which would then turn into this, 3 which -- strike that. 4 4 you know, basically cyclical phenomenon where you What is your opinion about the extent 5 have a feedback loop that's just constantly going, 5 to which mesh implanted in the pelvic floor degrades? 6 6 contributing, to greater amounts of inflammation and Is there a limit to it? 7 scarring. 7 MR. AYLSTOCK: Objection to form. 8 THE WITNESS: Could you repeat that? Q. Have you finished? 8 9 A. Yes. 9 I'm sorry. 10 10 THE REPORTER: Yes. Q. Okay. Can I limit the clinical 11 significance that you identify from the degradation 11 (The record was read as requested: 12 process that you describe to be an increased 12 "What is your opinion about the extent 13 inflammatory response and increased scarring? 13 to which mesh implanted in the pelvic 14 MR. AYLSTOCK: Objection to form. 14 floor degrades? Is there a limit to 15 BY MR. THOMAS: 15 it?") 16 Q. Those are the two things you just told me, 16 MR. AYLSTOCK: Same objection. 17 I think. 17 MR. CURTIS: Yeah. I'm sorry. I just 18 A. Well, I said a whole paragraph, so ... 18 don't understand the question. Go ahead. 19 19 Q. I know. I was listening carefully. I A. Me neither. Yeah. 20 20 thought you described each time those things: I would have to -- I don't understand 21 what you mean by "a limit," so I don't understand Increased inflammatory response, due to the cyclical 21 22 nature of it, and then increased scarring because of 22 the question. 23 23 the increased inflammatory response. BY MR. THOMAS: 24 Is there anything else? 24 Q. Okay. You've read Dr. Iakovlev's report.

16 (Pages 58 to 61)

Page 62 Page 64 1 Correct? 1 the -- I've studied it in the sense that I have 2 A. Some of them. 2 examined it myself. So I would say, by definition, 3 3 Q. You know Dr. Iakovlev said that the outer I'm studying it. 4 4 But with respect to the extent, I core of polypropylene mesh degrades and then it 5 5 stops. Do you know that? haven't done a comparison study with regards to 6 MR. AYLSTOCK: Objection to form. 6 other types of synthetic material and their 7 7 A. I don't specifically recall those words. embrittlement. 8 BY MR. THOMAS: 8 BY MR. THOMAS: 9 Q. Do you have any opinions suggesting that 9 Q. Is it fair to say that the opinions that 10 the degradation that you've studied and describe in 10 you have with respect to embrittlement and crack 11 your report on page 5 stops after a certain period 11 formation, based on work that you've done yourself, 12 of time? 12 is your work in these cases? 13 MR. CURTIS: I don't know if it makes 13 A. No. 14 14 a difference. You repeatedly refer to that Q. What other work have you done to study the 15 section -- "Comment" section in Exhibit 3 as his 15 embrittlement and crack formation on 16 general report. I think his testimony was those 16 Prolene polypropylene? 17 17 pages contained his general opinions, not that it's A. Well, the embrittlement is by my own 18 18 his general report. That's a distinction he made. examination of the gross specimens in the past. I 19 MR. THOMAS: I'm not worried about 19 didn't examine any of these specimens grossly. 20 20 that. If you want to make that distinction, that's So when I've -- you know, my 21 up to you. 21 experience, I guess, as a pathologist and a 22 MR. CURTIS: No, no. I just want to 22 physician outside of the context of this litigation 23 make sure that when we're finished with the process, 23 is -- is we've already discussed there are a couple 24 we all understand what you were after. 24 of dozen cases where I've seen the mesh myself, and Page 63 Page 65 1 1 examined it, both in the context of prior to BY MR. THOMAS: 2 Q. Is it your opinion that degraded mesh 2 formalin fixation and after formalin fixation. And 3 3 becomes embrittled? when I've examined those, those have been very stiff 4 4 A. Yes. and rigid and sharp, and I would say that that 5 5 contributes to my knowledge of that process. Q. Is it your opinion that degraded mesh forms 6 6 cracks on the surface? Now, whether I've actually looked at 7 7 A. Yes. them, you know, biochemically, no, I haven't. But, 8 Q. And is it your opinion that degraded mesh 8 you know, studying them, I would say that my 9 loses mechanical properties? 9 experience in the past would be characteristic of A. Yes. I would say all those are both my 10 studying the material. 10 Q. Do you have available for us to analyze the 11 opinions and the opinions of the general medical 11 12 literature. 12 pathology samples that you looked at over the past seven or eight years where you've reached these 13 O. Have you ever studied the extent to which 13 14 Prolene polypropylene embrittled over time? 14 conclusions? 15 MR. AYLSTOCK: Objection to form. 15 A. No. 16 16 Q. Do you have pathology reports for those two Suture? dozen or so times where you had the opportunity to 17 A. I don't ... 17 18 THE WITNESS: Could you repeat that? 18 analyze explants from the pelvic floor? 19 A. I don't have them myself, no. 19 THE REPORTER: Yes. 20 20 Q. The last thing you say is the (The record was read as requested: "Have you ever studied the extent to 21 polypropylene -- excuse me -- that polypropylene 21 loses mechanical properties. What mechanical 22 which Prolene polypropylene becomes 22 23 embrittled over time?") 23 properties are you referring to there? 24 24 A. Well, I would say with regards to study MR. AYLSTOCK: Where are you at?

17 (Pages 62 to 65)

Page 66 Page 68 1 MR. THOMAS: Right in the middle of 1 cetera? 2 2 the paragraph. "... embrittlement, crack formation, So over time, I've become somewhat 3 3 and loss of mechanical properties." familiar with the different types even before this 4 4 A. I would have to re-review that Clave litigation. So that's why I said I would say most 5 5 of them, but I didn't do a particular count. article. 6 6 BY MR. THOMAS: Q. So to the extent that degradation 7 7 Q. Okay. As you sit here today, you don't associated with a mesh implant is causing clinical 8 know what mechanical properties? 8 significance you would expect to find increased 9 A. Well, no. I'm using that as a general 9 inflammation around that degradation. Is that fair? 10 10 term, but not the specific mechanical properties MR. AYLSTOCK: Objection to form. 11 other than their ability to perhaps be functional. 11 A. I would expect to see inflammation. 12 12 Q. Are you relying on the work of others to Correct. 13 support your opinion that polypropylene that goes 13 MR. AYLSTOCK: Dave, whenever you're 14 through a degradation process loses mechanical 14 at a good point, I could use a bathroom break. 15 15 MR. THOMAS: Let's take a break. properties. 16 A. Not entirely, no. 16 (Recess from 9:31 a.m. to 9:40 a.m.) 17 Q. And what is your own experience that allows 17 BY MR. THOMAS: 18 18 you to offer that opinion? Q. Doctor, you told me earlier that you 19 A. Well, because I have felt and know what the 19 reviewed some information from Dr. Iakovlev. 20 20 mesh feels like and functions like before it's 21 implanted. I have felt it before and I've also felt 21 Q. Did you review expert reports from 22 it as a pathologist when it's come out of the 22 Dr. Iakovlev? 23 patient. And it's in some of these cases that I 23 A. Yes. 24 have been aware of -- obviously, I don't examine all 24 Q. How many? Page 67 Page 69 A. One or two maybe. 1 of these patients that don't have the mesh removed, 1 2 and maybe some of them it stays relatively pliable. 2 Q. Did you review any depositions of 3 I don't know the extent. 3 Dr. Iakovlev? 4 But in the ones that I have examined, 4 A. Yes. 5 they are hard and don't move very much, and I would 5 Q. How many? say that that is reflective of the fact that their 6 6 A. I think two. 7 physical and mechanical properties have been 7 Q. Did you review any other documents from 8 8 Dr. Iakovlev? 9 9 Q. Do you know which of the meshes that you've A. Just articles that he's published in the held in your hands following explant before fixation 10 10 peer-reviewed literature. 11 in formalin were Prolene meshes? 11 Q. Do you still have the depositions that you 12 A. I would say, from my understanding, most of 12 reviewed of Dr. Iakovlev? 13 them were. But I don't know the percentage. 13 A. I would imagine they're on that flash 14 Q. And why do you say most of them were? 14 15 A. Because when I have these gross specimens 15 Q. Okay. And do you still have the studies 16 with synthetic material or any type of foreign that you reviewed of Dr. Iakovlev? 16 17 material, I make a habit of reviewing the operative 17 A. Yes. Same thing. They're on the flash 18 reports to correlate what I'm seeing and what I'm 18 drive. 19 not seeing, what I'm not submitting for 19 Q. They're not on your exhibit list or your 20 histopathologic evaluation. 20 reliance list. That's why I asked the question. 21 21 So in these operative reports they A. Oh, well, some of it I've gotten since I 22 will discuss, this is this type, this is this type. 22 submitted my reports. 23 You know, this is, whatever, Boston Scientific. You 23 Q. We got an updated one Thursday. 24 know, whether it's an implant for breast implant, et 24 A. An updated what?

Page 70 Page 72 1 Q. Reliance list, Thursday. 1 BY MR. THOMAS: 2 A. I don't know. 2 Q. Did you give me everything you have, to the Q. What have you gotten since you've submitted 3 3 best of your ability? 4 your reports that you've reviewed in connection with 4 A. Everything that my understanding was that I 5 your work in this case? 5 was supposed to provide you --6 6 A. Some of the client deposition transcripts. Q. Okay. 7 7 Q. "Client" as in plaintiff deposition A. -- is on that disc -- or that USB, from my 8 transcripts? 8 understanding. 9 A. Yeah. Sorry. The plaintiff. 9 Q. Are there any materials that you gathered 10 Q. We each have different clients. 10 yourself or you received from others in connection 11 A. Right. Sorry. 11 with your work in this case that you did not produce 12 12 The -- some of the plaintiff to us? 13 deposition transcripts. 13 A. I don't know what types of materials those 14 I've reviewed some of the defense 14 would be. 15 15 Q. As far as you know, you gave us everything expert reports. 16 I've reviewed probably some additional 16 that you either found yourself or that others gave 17 17 medical literature, just in general. you in connection with your work in this case? 18 18 Q. Is Exhibit No. 2 a complete electronic file A. That's my understanding. 19 of the information that you've been provided and 19 Q. And for what purpose did you review the 20 reviewed in connection with your opinions in the 20 depositions of Dr. Iakovlev? 21 case? 21 A. Well, they sent them to me. 22 A. It's as complete as I am aware. 22 And I said that I wanted to review 23 Q. Okay. Was there any attempt by you to 23 them, because -- since he's a pathologist expert in 24 segregate out things from the electronic file, 24 this litigation as well, I wanted to see the types Page 71 Page 73 1 1 Exhibit No. 2, that you didn't produce to us? of questions that he was being asked. 2 MR. AYLSTOCK: Well, again, we've 2 And, you know, if there was something 3 lodged our objections to a lot of the materials in 3 that surprised me about what they were asking, or 4 there and you have those objections. 4 something that I didn't think about that I should 5 And you can ask the question. 5 have evaluated or -- you know, I mean, I'm -- I'm a 6 6 A. I didn't catch the end of that question. human being just like everybody else, so I can make 7 7 THE REPORTER: Do you need me to mistakes, like anybody else. 8 8 repeat it? And I thought, well, let me see if 9 9 THE WITNESS: Yes, please. maybe he has a different understanding if he's asked 10 10 (The record was read as requested: a question, and I think, well, okay, this is how I 11 "Was there any attempt by you to 11 would answer the question. 12 segregate out things from electronic 12 But then he answers it a different 13 file, Exhibit No. 2, that you didn't 13 way. And then I have to think to myself, well, this 14 produce to us?") 14 is just in general. Well, am I thinking about it 15 MR. CURTIS: I don't even know what 15 differently or is he thinking about it differently? 16 Let me go back to the literature on 16 that means. Do you mean --17 MR. THOMAS: He might be able to 17 this point and see what the literature says. 18 answer this question. If he can, he can answer it. 18 So that was my intention when I -- any 19 19 time I've reviewed deposition transcripts from any MR. AYLSTOCK: If you understand it, 20 20 of the experts. Doctor. 21 21 MR. CURTIS: I don't get "to Q. And I believe you said you reviewed one or 22 segregate" from what? You know, are you asking --22 two reports of Dr. Iakovlev. Correct? A. Correct. 23 MR. THOMAS: I'll start over again. 23 24 24 /// Q. Do you know what cases they were?

19 (Pages 70 to 73)

Page 74 Page 76 1 A. I'm not 100 percent sure, but I believe one 1 expert reports, I can't remember who was who. 2 2 Q. Okay. Would those reports be on the thumb of them maybe is Bellew or ... 3 3 Q. Good. Do you recall disagreeing with drive or the jump drive that you've given us? 4 4 anything that Dr. Iakovlev said in his reports? A. I believe so. I don't know. 5 5 A. Not that I can recall. Q. Did you find yourself disagreeing with what 6 6 Q. Do you recall disagreeing with anything Dr. Vogel said? 7 that Dr. Iakovlev wrote in his papers that you have? 7 A. Well, I don't remember what -- exactly what 8 A. Again, not that I can recall. 8 he said, but -- and I don't remember which case it 9 Q. Okay. Have you ever met Dr. Iakovlev? 9 was in reference to. 10 10 O. Okay. 11 Q. Have you ever spoken to him on the phone? 11 A. But there were things that I remember 12 A. No. 12 thinking that it was -- I guess, the best word would 13 Q. Have you spoken with any other pathologists 13 be "petty." who are looking at these types of issues in this Q. What did you think was petty about 14 14 15 litigation? 15 Dr. Vogel's report? 16 A. Not to my knowledge. 16 A. I can't remember if it was his report or 17 17 Q. Are you a neuropathologist? not, but I believe it was his report that he talked 18 A. I'm not board certified in neuropathology. 18 about a figure of mine and said something like 19 19 Q. What is a neuropathologist? "Well, clearly his lack of experience is obvious 20 20 A. So the focus of a neuropathologist would because he didn't comment on nerve in this picture." 21 be, I would say, central nervous system issues, 21 Which I found to be so absurd and so petty and so 22 generally, brain and spinal cord, and dealing with 22 ridiculous that I actually laughed out loud when I 23 both the non-neoplastic and neoplastic entities that 23 read it. 24 24 occur in that region. Because any time any pathologist puts Page 75 Page 77 1 1 any picture in any report, or whatever, in any Some of them also do muscle biopsies 2 and evaluate those, or large nerve biopsies and 2 figure in a peer-reviewed article or a figure in a 3 3 evaluate those for pathology. I mean, that's very text, we don't describe every single element of a 4 neuropathologist-dependent because not all of them 4 picture and what's in there. 5 do that. I would say that's basically what they do. 5 It's not a children's coloring book 6 6 Q. Did you consult with any neuropathologists that I'm, you know, have a line and say, this is the 7 7 in connection with your opinions in this case? hand; this is the arm. 8 8 A. I didn't consult with any neuropathologists Color the hand blue; color the arm 9 9 with regards to this case, no. white. 10 10 Q. Have you read any expert reports of So I found that that was -- for him to 11 neuropathologists submitted by Ethicon? 11 point that out as evidence of my lack of experience 12 A. I believe so. 12 with regards to nerves, I just -- I found that 13 Q. Which ones have you read? 13 A. I don't recall the name. I think it was 14 14 Q. Anything substantive about his report that 15 Hannes Vogel. 15 you disagreed with, that you recall? Q. The Stanford pathologist? 16 MR. AYLSTOCK: Objection to form. 16 We can pull out the report if that's 17 A. I think so. 17 18 Is he a neuropathologist? 18 really what you're going to do, but this isn't --19 19 Q. Yes, he is. MR. THOMAS: I don't want to go to 20 A. Yes. Then that's one of the ones that I 20 that. I'm asking what he recalls. 2.1 21 can remember. MR. AYLSTOCK: And, as you know, his 22 22 Q. Dr. McClendon? reports are case specific, so I'll remind you we 23 23 have limited time for this general deposition. A. I recall the name. 24 24 I've read so many of the defense MR. THOMAS: And you're using it right

20 (Pages 74 to 77)

1 now. 2 MR. AYLSTOCK: And you're using it, 3 and I'm pointing that out to you 4 MR. THOMAS: Thank you. 5 MR. AYLSTOCK: as a courtesy. 6 MR. THOMAS: The latest sensor and sensor in that a nerve carries cannot be determined without identification of the sensory receptor that creates the signal?") 5 MR. AYLSTOCK: as a courtesy. 6 MR. THOMAS: The latest sensor in the sensor identification of the sensor receptor that creates the signal?") 6 MR. THOMAS: The latest sensor identification of the sensor receptor that creates the signal?")	
2 MR. AYLSTOCK: And you're using it, 3 and I'm pointing that out to you 4 MR. THOMAS: Thank you. 5 MR. AYLSTOCK: as a courtesy. 2 be determined without identification of the sensory receptor that creates the signal?") 5 A. I would say that sounds biologically	
3 and I'm pointing that out to you 4 MR. THOMAS: Thank you. 5 MR. AYLSTOCK: as a courtesy. 3 of the sensory receptor that creates 4 the signal?") 5 A. I would say that sounds biologically	
4 MR. THOMAS: Thank you. 4 the signal?") 5 MR. AYLSTOCK: as a courtesy. 5 A. I would say that sounds biologically	
5 MR. AYLSTOCK: as a courtesy. 5 A. I would say that sounds biologically	
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6 MR. THOMAS: Thank you. 6 correct.	
7 A. So I read his whole report. And, again, I 7 BY MR. THOMAS:	
8 don't remember I read so many of them, I don't  8 Q. I'm not sure of the qualification. Why	do
9 remember the details of all of them without them in 9 you say "biologically correct"?	uo
10 front of me. And I don't 10 A. Because you're talking about a mechan	nism
11 I think because that one comment about 11 So that's a biologic mechanism, and so I wou	
the nerve struck me as so funny that I don't 12 that sounds biologically correct.	ia say
13 remember other specifics about 13 Q. And is it fair to say that you need to	
14 MR. AYLSTOCK: And if you'd like, we 14 identify the receptors to conclude that a given	
15 can get a printout of it and give it to you. 15 nerve fiber will transmit pain signals?	L
16 MR. THOMAS: I don't want that, Bryan. 16 A. I don't know if that's true.	
17 I'm just asking what he recalls. 17 Q. Do you disagree with it or don't know	;£
18 A. I would say that's what I recall, as I sit 18 it's true?	11
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24 autonomic? 24 said, both sensory and motor signals. So I do	11 t
Page 79 Page	
1 A. Well, most of them have sensory and motor 1 think that you have to say I don't think you l	
2 functions, by definition. 2 to know the receptor to know for sure what kin	d of
3 Q. But are you able to discern from your 3 signal it's carrying.	
4 review of the slide the extent to which there's 4 Q. Do you agree that not all sensory nerve	
5 sensory, motor, or autonomic? 5 fibers transmit pain signals?	
6 A. So, from reviewing just a regular H&E 6 A. I would say that's correct.	
7 slide, there's no way to tell with regards to 7 Q. Are you suggesting by the reports that	
8 sensory and motor. 8 you've offered in these cases that you're able to	
9 Q. Or autonomic? 9 diagnose disease by examining nerve twigs the	t you
10 A. Right. Autonomic. 10 see in these slides?	
11 Q. Is there any stain that's capable of 11 MR. AYLSTOCK: Objection to form	
12 differentiating among nerves? 12 THE WITNESS: Could you repeat the	at?
A. I don't use those stains on a day-to-day 13 THE REPORTER: Yes.	
basis, so that's not something that I did in this   14 (The record was read as requested:	
15 litigation or have reviewed, because I don't I 15 "Are you suggesting by the reports	
16 don't do that. 16 that you've offered in these cases	
Q. Do you agree that the type of sensation 17 that you're able to diagnose disease	
that a nerve carries cannot be determined without   18 by examining nerve twigs that you se	<b>;</b>
19 identification of the sensory receptor that creates   19 in these slides?")	
20 the signal? 20 A. I don't understand that question.	
20 the signal? 20 A. I don't understand that question. 21 THE WITNESS: Can you repeat that? 21 BY MR. THOMAS:	
20 the signal? 21 THE WITNESS: Can you repeat that? 22 THE REPORTER: Yes. 20 A. I don't understand that question. 21 BY MR. THOMAS: 22 Q. Okay. Let me ask this question, and as:	: it
20 the signal? 20 A. I don't understand that question. 21 THE WITNESS: Can you repeat that? 21 BY MR. THOMAS:	

Page 82 Page 84 1 identify what you do, what is your purpose for these 1 all of the information from the rest of the findings 2 cases? What are you trying to do with what you 2 in order to make the appropriate differential 3 3 reviewed from these slides? diagnosis? 4 MR. AYLSTOCK: Objection to form. 4 A. Well, I mean, in addition to my slides, I 5 A. I would say my main purpose in reviewing 5 would -- I'm not just reviewing them in a vacuum. б 6 these slides is to correlate my microscopic findings Q. I understand that. 7 7 with the clinical indication for the surgical A. So I review -- I ask for a full set of the removal of the mesh. And to generate a pathologic 8 medical records, and in some cases have asked if a 9 differential diagnosis with regards to what the 9 deposition transcript for the plaintiff has been --10 10 is available if I feel like there is any sort of clinical indication was for the surgery and with 11 what I'm seeing histologically and to rule out other 11 inconsistency in the medical record, or something 12 12 causes that could have influenced the patient's that isn't correlating with what the surgeon is 13 infections or pain or dyspareunia, or whatever --13 reporting. Then I will ask for additional material. 14 14 erosion, whatever else could have influenced that. But in these cases at least, I had 15 As a pathologist, that would be my 15 extensive medical records that were just thousands 16 main goal as to both correlate the findings that I'm 16 and thousands of pages, so --17 seeing with what's described in the medical 17 And it seemed to me from my review to 18 literature, as well as rule out other pathologic 18 be pretty complete, so as I went through them, for 19 causes for those clinical symptoms and signs. the most part, I think there may have been a couple 19 20 cases where I specifically said, "Do you have this BY MR. THOMAS: 20 21 Q. What does the term "correlate" mean to you? 21 report?" 22 A. "Correlate" would be to take one set of 22 Or, "I don't have this operative report. Did you not send that?" 23 findings with another set of findings and relate 23 24 them to one another, I would say, would be a general 24 And, "Oh, well, actually, no. It's in Page 85 Page 83 1 definition that I would use. 1 this file folder, or maybe I missed it or 2 Q. And in your work in this case, one set of 2 something." 3 3 findings is your findings from your review of the So there were times when I would call histologic slides. Correct? 4 4 and say, "You know, I can't find this. Did you 5 A. That's correct. 5 include this?" 6 Q. And what is the other set of findings that 6 Or, "You know, does this plaintiff 7 you're correlating with in order to give your 7 have a deposition already? I'd like to review the 8 8 opinion in this case? deposition in this case." 9 9 A. Either the surgeon's findings operatively Q. And all the information that you received 10 or the patient's symptoms or signs that have been 10 for each of these six cases is on that flash drive 11 described. 11 that you supplied to us. Correct? 12 Q. And as a result of that, you then make a 12 A. Yes. differential diagnosis as a pathologist as to the 13 13 MR. AYLSTOCK: Just so -- I think -likely cause of the symptomology. Did I understand 14 14 MR. THOMAS: Subject to the objections 15 that correctly? 15 that you made. 16 A. Yes. I would say that's fair. MR. AYLSTOCK: Well, that, and I think 16 17 Q. So you have control over the information 17 you also have some Dropboxes that might be 18 that you review. You have a limited number of 18 completely coextensive or not, but some links were 19 slides and you can look at it, and that's your set 19 provided last evening. 20 of findings. Correct? 20 MR. THOMAS: Thank you for the timely 21 21 A. Yes. production of the documents. 22 MR. AYLSTOCK: Objection to form. 22 MR. AYLSTOCK: Same goes for you in 23 BY MR. THOMAS: 23 every other deposition that I've been in. But I 24 Q. What do you do to make sure that you have 24 appreciate the compliment.

22 (Pages 82 to 85)

Page 86 Page 88 1 BY MR. THOMAS: 1 medical records, depositions or other information, Q. So what do you do to satisfy yourself that 2 related to these individual plaintiffs for the 2 3 3 you have a complete set of information with which to formation of your report. 4 do your differential diagnosis? 4 A. I don't know what kind of help you're 5 5 MR. AYLSTOCK: Objection to form. referring to. 6 A. Well, I'm a little uncomfortable by the 6 Q. Well, you just described to me quite a 7 volume of information. Did you do it all yourself? 7 verbiage of that question. 8 But -- I don't know what I do to 8 A. I did it all myself. 9 satisfy myself that I'm okay with the information, 9 Q. Okay. And for these six cases, about how 10 10 many hours have you spent working on these cases? but I basically review all of the -- once I have 11 reviewed all of the data, all of the medical 11 A. Many, many, many hours. I don't have a 12 records, if I feel like I have a complete picture of 12 number off the top of my head. 13 what was going on clinically, then that's what I'm 13 Q. Are your billing records included in what 14 looking for. 14 you've produced to us? 15 BY MR. THOMAS: 15 A. I'm not aware if they are or not. 16 Q. First of all, I don't mean to insinuate 16 O. I know --17 17 anything by my question. All I'm trying to MR. AYLSTOCK: If they're not, I'll 18 understand is, at some point you become satisfied 18 get them to you, Dave. 19 that you have what information you need to make a 19 MR. THOMAS: Okay. 20 differential diagnosis. 20 BY MR. THOMAS: 21 And all I want to understand is how you 21 Q. How do you keep your time? 22 22 go through that process to make sure you understand A. I have on my computer Word documents for 23 that you have what you need in order to make an 23 each of the cases. And when I'm reviewing 24 appropriate differential diagnosis. 24 something, I have it on my drive -- my Google Drive, Page 87 Page 89 1 1 so if I'm in a library or wherever, at home, I look A. Okay. 2 Q. That's all I intend with the question. 2 at what time I start and then when I'm done, I add 3 3 that time. 4 4 MR. AYLSTOCK: And I think he's Q. Okay. So real time as you're doing work, 5 answered that extensively in what he's already said, 5 you update your individual time sheet for each case. 6 6 Is that fair? so ... 7 7 MR. THOMAS: All I want to do is make A. Constantly, yes. 8 8 sure he didn't think I was disparaging him in any Q. All right. And you have on your computer 9 9 right now your up-to-date time that you spent on 10 10 each of these six cases? A. Oh, no. 11 11 A. Yes. BY MR. THOMAS: 12 Q. Do you rely on counsel to supply you with 12 Q. Do you maintain any other separate bill in the information that you need? addition to the six cases for which you're appearing 13 13 14 MR. AYLSTOCK: With regard to the 14 here today for any general work you're doing on the 15 15 file? medical --BY MR. THOMAS: 16 16 A. I think I have in the past, yes. 17 Q. With respect to the individual plaintiffs. 17 Q. Okay. So if I wanted to review the time 18 A. Well, yes. I don't contact the -- their --18 that you spent on this matter, this litigation, it 19 it's not like I ask for a list of their physicians 19 would be these six individual times, and then a 20 20 and contact the offices directly. general file or a general bill that would provide 21 21 Q. Okay. time that you spent there. Fair? 22 A. I rely on them to be responsive when I ask 22 A. Yes. But having said that, I would also 23 for medical records and further information. 23 say that within the specific cases, there are times 24 Q. Did you have any help in reviewing the 24 when I'm reviewing general information that relates

Page 90 Page 92 1 to that particular case. 1 MR. AYLSTOCK: Objection to form. 2 2 A. I think I would leave as far as the actual Q. Absolutely understand that. 3 A. Okay. 3 material that needs to be used for these surgical 4 4 procedures more to a surgeon. Q. Is there any other category of time for 5 which you submit bills to the plaintiffs? 5 I would say as a pathologist with 6 б A. I don't think there's any other category of regards to what type of material they should use --7 7 time that I submitted a bill. whether it's synthetic, absorbable, nonabsorbable, 8 Q. So if I get the bills for the six cases and 8 biologic -- I would say I don't really have a 9 the general file, I'll have a complete set of the 9 general opinion about what is best surgically to use 10 10 bills and time that you've submitted to the on these patients. 11 plaintiffs in the case? 11 BY MR. THOMAS: 12 A. Yes. 12 Q. Does that apply to both stress urinary 13 Q. When you record your time as you do it, you 13 incontinence and pelvic organ prolapse? A. I would say yes, in general. 14 record it by the amount of time you spent. Correct? 14 15 A. Correct. 15 Q. Just so I can shut this down: 16 Q. Do you describe what you were doing? 16 Is it fair to understand that you will 17 17 A. Yes. not give any opinions at the trial in this case about 18 18 Q. And what is your purpose when you describe the appropriate mesh material for the treatment of 19 what you're doing? What are you trying to say? 19 stress urinary incontinence or pelvic organ prolapse? 20 20 A. For my own recollection, mainly. It hasn't MR. CURTIS: Object to the form of the 21 come up yet, maybe because it's not case specific. 21 question. That's not what you asked him before. 22 22 But a lot of times I will be asked in MR. THOMAS: Sure, it is. 23 depositions in the past, "When were you first 23 MR. CURTIS: You're talking about 24 contacted by the attorneys?" 24 absorbable mesh and then you generalized and Page 91 Page 93 1 And I'll go to my invoice and say, 1 expanded the scope of it. 2 this -- on such-and-such day, I had a ten-minute 2 MR. THOMAS: He just -- I don't have 3 3 real time. I'm sorry. conversation with so-and-so. 4 THE REPORTER: Do you want his last 4 And then "Well, when did you receive 5 5 answer? the slides?" MR. THOMAS: I do. 6 "Well, on such-and-such a day I 6 7 received the slides and did an inventory." 7 "I think I would leave as far as the 8 So I do it for completeness' sake and 8 actual material that needs to be used for these 9 9 to be able to give a good timeline if I'm asked. surgical procedures more to a surgeon. 10 10 Q. Okay. So the purpose of your time charges "I would say as a pathologist with 11 is not only to count your time but also to give you 11 regards to what type of material they should use, 12 chronology so that you can recall what work you did 12 whether it's synthetic, absorbable, nonabsorbable, 13 at what time? 13 biologic, I would say I don't really have a general 14 14 A. I'd say that's correct. opinion about what is best surgically to use on these 15 Q. In Exhibit No. 3, you discuss generally the 15 patients." concept or the idea of absorbable mesh on the first 16 BY MR. THOMAS: 16 17 couple pages --17 Q. And my question is, is it fair to 18 A. Okay. 18 understand that you're not going to give an opinion 19 19 Q. -- do you remember that? Under "Comment" at trial in these cases about what material 20 20 on page 2. manufacturers should use in mesh for the treatment 21 21 of stress urinary incontinence or pelvic organ 22 Q. Do you have any opinions that absorbable 22 prolapse in women? 23 mesh should be used for the treatment of stress 23 MR. AYLSTOCK: Do you mean as opposed 24 urinary incontinence? 24 to the materials implanted in these women in the

24 (Pages 90 to 93)

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MR. THOMAS: That's what I'm trying to understand, Bryan. He told me no.

MR. AYLSTOCK: I'm trying to understand too. I'm not telling him not to answer, I'm just trying to understand what you're getting

A. So, I guess, to clarify, my opinion would be, as a pathologist, I'm not going to tell a surgeon, for this particular patient you need to use this material; for that patient you should use that material.

Oh, you need to make sure and go suburethrally with this type of material; go through the obturator foramen with this type of material.

That's not my goal or purview, I guess, as a pathologist. Mine would be to evaluate the types of material that I see pathologically and to correlate whatever histopathologic responses I'm seeing to whatever material with what's going on clinically.

22 BY MR. THOMAS:

23 Q. Do you have an opinion to offer in this 24 case that the manufacturers should have used

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seen pathologically in this specimen, if there was another specimen type or another mesh type that was

3 known to have these -- these characteristics that

4 would not have given you the same -- that would

5 likely not have given you the same pathologic

6 response, would I feel, as a pathologist, that this

type of material was better than another type of

8 material? I would just answer any question as it's

9 posed to me.

> I don't know -- you know, when I'm asked, am I going to give this type of opinion in a court, I don't -- all I can say is I'm going to answer whatever questions I'm allowed to answer in a court, based on -- if I feel, based on my information that I have in the medical literature and what I've reviewed, that I can answer the question.

#### BY MR. THOMAS:

Q. For any of the six cases that you've reviewed and that we're here for the next two days, is there a different material that you would advocate for use of the treatment of stress urinary incontinence that would not produce the symptoms that these women experienced?

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1 different material in any of the meshes you've 2 analyzed?

A. I don't know about the specific types of material that was available to them. I didn't have those internal documents that I recall that specifically mention the different types of material that they could have used or how they advertised those materials. I don't have any of that information.

O. I understand that.

Is it fair to understand that you're not prepared at trial to offer an opinion that Ethicon should have used a particular material in the -- in its meshes used for the treatment of stress urinary incontinence or pelvic organ prolapse? MR. AYLSTOCK: Objection to form. MR. CURTIS: Yes.

A. Well, you know, as a pathologist, the way I deal with -- or I guess, as any physician, the way I deal with questions that are medically related would be to answer the question that is posed to me.

So, I guess, with respect to your question, if I was asked at trial as a pathologist and in my opinion with the types of responses I've Page 97

A. Again, I don't -- I didn't discuss any use of a material that should have been used in contrast to what was used.

Q. Okay. And, as you sit here today, you don't have any opinions in that regard?

A. I haven't been asked any specific questions regarding that, and I haven't reviewed material with respect to that subject.

9 Q. Okay. Do you agree that it's a normal 10 histological finding to see nerve branches in all 11 types of surgically removed tissues?

MR. AYLSTOCK: Objection to form.

13 A. Could you repeat that, please?

BY MR. THOMAS: 14

Q. Do you agree that it is a normal histological finding to see nerve branches in all 16 17 types of surgically removed tissues?

A. No.

Q. Why don't you agree with that?

A. Because it's not correct; that's why.

21 Q. Okay. Do you agree that surgical

interruption of the microscopic nerve supply to all types of soft tissues in the human anatomy, whether

24 in the presence of artificial materials or not, is

25 (Pages 94 to 97)

Page 98 Page 100 1 always accompanied by fibrosis and the repair of 1 Neutrophils have different cytokines 2 blood vessels, nerve fibers, and other vital 2 that can be secreted, and those can actually 3 3 connective tissues? interact with the sensory receptors on the nerve 4 MR. AYLSTOCK: Objection to form. 4 itself which can give you a different quality of 5 A. I would not say always with respect to any 5 6 physiologic property in the body. But I would say 6 So when I say it's complex, it's 7 7 that, more likely than not, different degrees of because there's different types of pain and there's 8 stromal reaction occur following those types of 8 different types of inflammatory reactions that can 9 surgical procedures. 9 produce those different types of pain. 10 BY MR. THOMAS: 10 BY MR. THOMAS: 11 Q. Okay. What is the mechanism between, you 11 Q. Finished? 12 12 know, inflammation that you describe in your reports A. Um-hmm. 13 and pain? 13 Q. Thank you. A. I would say the mechanism with regards to 14 14 MR. THOMAS: Let's go back to his 15 inflammation and pain is something that is extremely 15 prior answer, please. 16 complex and not something that I, as a pathologist 16 (Pause in proceedings.) 17 17 generally would report or describe. BY MR. THOMAS: 18 18 Simply correlating the fact that Q. I understood your prior answer to be that 19 inflammation is known to be associated with pain and 19 generally, you -- as a pathologist, you would not 20 reporting whether that inflammation is present or 20 generally describe the mechanism of pain --21 not, but not with regards to the receptors and the 21 mechanism between inflammation and pain. Is that 22 cytokines that are produced and the feedback loops 22 fair? 23 and the cycles. That's not something that I have 23 A. In a report. 24 specifically reviewed in preparation for this. 24 Q. Okay. Is there a discipline within -- in Page 99 Page 101 1 Q. Is it fair to understand that you can't 1 medicine that is the appropriate discipline to 2 tell me today the mechanism between inflammation and 2 discuss the specifics of the mechanism of 3 pain? 3 inflammation and pain. 4 4 MR. AYLSTOCK: Objection to form. MR. AYLSTOCK: Objection to form. 5 A. No. I'm not saying -- what I said is that 5 A. I don't think that there's a specific 6 that mechanism is complex. And that --6 discipline or specialty where that's their focus. 7 7 BY MR. THOMAS: BY MR. THOMAS: 8 Q. Can you explain it to me? 8 Q. Is there a discipline within medicine that 9 MR. AYLSTOCK: In how many hours? 9 has its focus that is more specialized than your own 10 A. Well, it's not -- it's that there --10 in this area? MR. AYLSTOCK: In what area? 11 Inflammation, depending on the 11 12 inflammatory cell, whether it's a macrophage or a 12 BY MR. THOMAS: 13 neutrophil, secretes different kinds of interlukens 13 Q. In the mechanism between inflammation and 14 and cytokines, and those can cause other cells to 14 pain. 15 migrate to the area. Those can induce fibroblasts 15 THE WITNESS: Can you repeat that? 16 proliferation, which in a more end stage, may entrap MR. THOMAS: I'll just ask it again. 16 17 a nerve and cause pain that way. 17 THE WITNESS: Okay. 18 Alternatively, if you have an 18 BY MR. THOMAS: 19 eosinophil, which is another type of inflammatory 19 Q. Is there an area of medicine that is more 20 cell, that secretes, say, Interleukin-5 or 20 specialized than your areas of expertise to explain 21 Interleukin-6 that can cause vasodilation of the 21 the mechanism between inflammation and pain? 22 vessels and cause edema to rush out into the tissue 22 A. Well, I don't know if it would be in 23 which gives you a pressure sensation which is 23 medicine or in biology. Because everything that I 24 24 painful. described is, you know, biological processes, which

26 (Pages 98 to 101)

Page 102 Page 104 can occur in humans and animals. 1 1 Q. So you chose not to deal with it. 2 2 A. No. I dealt with in the sense of I read it So I would say that it's not 3 necessarily in human medicine where any specialties 3 and I evaluated it. But from my recollection, there 4 focus on specifically inflammation and pain and 4 were a lot of problems with it. 5 5 those mechanisms that are causing them. Q. Okay. Do you remember generally what the 6 6 Q. Is it your testimony that you're as problems were? 7 7 A. I think that it was -- I think it was a qualified in your discipline as any other discipline to offer opinions of the mechanism of inflammation 8 retrospective study, and I didn't feel like they --9 9 it didn't seem like they could confidentially rule and pain? 10 10 MR. AYLSTOCK: Objection to form. out that the patients that they were saying didn't 11 A. I don't know. 11 have pain didn't actually have pain, because they 12 12 were reviewing the records -- the medical records BY MR. THOMAS: 13 Q. Okay. In your research in this case, did 13 only, and there was no attempt to actually discuss 14 14 you make any effort to determine the existence of these patients' reported pain or not, or had --15 any studies that looked at the role of inflammation 15 I should say had pain and just weren't 16 in mesh explants for patients who had mesh removed 16 reporting it because maybe they were so focused on 17 because of pain, as opposed to mesh removed for 17 their -- I think, it was urinary symptoms, which was 18 18 the other group that had, like, urinary symptoms and reasons other than pain? 19 THE WITNESS: Can you repeat that? 19 supposedly not pain. 20 20 THE REPORTER: Yes. But I mean, I know patients in general 21 (The record was read as requested: 21 will go to a physician and have several problems and 22 22 "In your research in this case, did report really one of them, and they may have another 23 you make any effort to determine the 23 problem. But unless they are specifically asked may 24 existence of any studies that looked 24 not report it. So that was one issue with the Page 103 Page 105 1 1 at the role of inflammation in mesh study. explants for patients who had mesh 2 Another one is they didn't really 3 3 characterize the type of fibrosis or inflammation. removed because of pain as opposed to 4 mesh removed for reasons other than 4 They talked about grading it, like 0 to 3 or 0 to 2, 5 5 I don't -- I know there were several different pain?") 6 6 MR. CURTIS: Object to the form of the categories. 7 7 of the question. But they didn't really describe that 8 8 A. Yes. I did. in detail, like -- and the association with the 9 9 BY MR. THOMAS: mesh, whether that was inflammation around the mesh 10 10 Q. Okay. Did you find any studies? or it was away from the mesh. 11 A. Yeah. There was a study that -- there was 11 And the reason that's important is 12 one study in particular that I reviewed. I can't 12 because the specimens that would have been reviewed 13 remember the author's last name. I think it might 13 that were from around the bladder or around the 14 have been Hill, or ... 14 urethra, that tissue, in general, can have some 15 15 degree of inflammation that maybe would just be Q. Yep. 16 normal for that region, or could be normal for that 16 That's not on your reliance list. Is 17 there a reason why? 17 region. A. I tried to include everything on my 18 18 So if someone's not having pain, and they're saying, Oh, well, look, the patients that 19 19 reliance list that I had reviewed. 20 20 had no pain had just as much inflammation as the You know, again, not everything that's 21 21 on there -- or not everything that is -- forms my patients that had pain. 22 22 opinions is on there, it just is the nature of my Well, you're not taking into account 23 profession. But on this particular study, I thought 23 the fact that the patients that didn't have pain, their specimens were from areas that normally would 24 that it was a really bad study. 24

Page 106 Page 108 1 have had more inflammatory cells, which is skewing 1 percentage of complications -- the percentage of 2 the data. That was another problem that I had with 2 patients who receive mesh for stress urinary 3 3 incontinence that experience mesh for -- pain for 4 4 Just off the top of my head, those are longer than six months? 5 5 the ones that I can remember. MR. AYLSTOCK: Objection to form. 6 б A. Again, I think that that's a very confusing Q. Sure. Any other studies that you looked at 7 7 question for me. analyzing the role of inflammation in meshes explanted for reasons of pain and meshes explanted 8 I don't really understand if you're 9 9 asking from post-op day number one until post-op day for non-pain reasons that you've looked at but 10 number 180, or if they have six months of pain that 10 haven't included in your report or your reliance 11 list? 11 may be on and off over the course of several years? 12 12 I guess I just don't understand. A. There may have been others. I just can't 13 remember the specifics of the authors or the actual 13 BY MR. THOMAS: O. That's fine. 14 names. 14 15 Q. You agree that less than 5 percent of 15 You do agree that for more than 16 patients undergoing explantation of SUI slings do so 16 90 percent of the patients who receive mesh for the 17 for long-term pain, don't you? 17 treatment of stress urinary incontinence they have no 18 18 MR. AYLSTOCK: Objection to form. complaints of pain after six months? 19 19 MR. AYLSTOCK: Objection to form. A. Would you repeat that? 20 20 BY MR. THOMAS: What kind of pain? Q. Do you agree of the patients who are 21 21 A. I -- I don't know. I don't understand. 22 22 undergoing -- well, strike that. BY MR. THOMAS: 23 (Pause in proceedings.) 23 Q. Have you studied the issue of pain as a 24 24 complication in the use of mesh for the treatment of /// Page 107 Page 109 1 BY MR. THOMAS: 1 stress urinary incontinence? 2 Q. For patients who receive mesh implants for 2 MR. AYLSTOCK: Objection. Asked and 3 treatment of SUI, do you know what percentage 3 answered. He's already --4 4 experience complications of pain more than six MR. THOMAS: Please let me ask the 5 5 questions completely, Bryan. months? MR. AYLSTOCK: I objected to it. 6 MR. AYLSTOCK: Objection to form. 6 7 A. I guess I don't understand if you're asking 7 A. Could you repeat that? 8 pain greater than six months in duration or --8 BY MR. THOMAS: 9 9 BY MR. THOMAS: Q. Have you studied the extent to which pain 10 10 is a complication in patients who receive mesh for O. Yes. A. -- after six months. 11 11 the treatment of stress urinary incontinence? 12 Q. Six months greater in duration. 12 A. Yes. I've reviewed the different 13 MR. AYLSTOCK: From the time of the 13 complications from mesh. 14 original implant? 14 Q. What are the rates of complications for 15 15 pain over six months in women who've received mesh MR. THOMAS: Yes. 16 for the treatment of stress urinary incontinence? 16 A. I don't understand. 17 So starting at six months and then 17 MR. AYLSTOCK: Objection to form. 18 have it for six months? 18 A. I don't know if you're talking about -- I 19 don't specifically remember reading about studies 19 BY MR. THOMAS: 20 20 that have looked at patients that have had six O. No. 21 21 At the time of implant, pain persists months of continual pain from the time of their 22 from date of implant to longer than six months. 22 surgery until six months post-op. I don't recall 23 23 A. So -reading that data. 24 Q. Are you aware of the number -- the 24

Page 110 Page 112 1 BY MR. THOMAS: 1 discuss that issue specifically insofar as relates to 2 Q. Okay. And to the extent that you looked at 2 the replacement of mesh for the treatment of stress 3 studies in that regard, they'd be on Exhibit 2? 3 urinary incontinence? 4 A. They should be. 4 MR. AYLSTOCK: Objection to form. 5 Q. Okay. Do all women who receive mesh for 5 A. I would have to go through my articles. I 6 6 the treatment of stress urinary incontinence have an don't remember the specifics of your question in 7 inflammatory response to that mesh? 7 relationship to one particular article, but I would 8 MR. AYLSTOCK: Objection to form. 8 have to look at my different articles that I've 9 A. I would say all women that have synthetic 9 reviewed. mesh implanted would have an inflammatory response 10 10 BY MR. THOMAS: 11 to mesh. 11 Q. Okay. Fair to understand you don't recall 12 12 BY MR. THOMAS: 13 13 Q. Why do some women experience pain and A. I can't recall any of the specifics now, 14 others do not? 14 no. 15 A. I would say every human is different and 15 Q. Is it true that chronic inflammation is a 16 there's a reason why complication rates aren't 16 finding seen in the vaginal tissues of women 17 0 percent verses 100 percent. It's because every 17 suffering from stress urinary incontinence, pelvic 18 body is different, every body has different organ prolapse, and other pelvic floor dysfunction 18 19 responses, different genetics. 19 even before mesh is implanted? 20 Maybe some people have a higher 20 MR. AYLSTOCK: Objection to form. 21 genetic predisposition to having a particular type 21 A. I don't think that that's necessarily true, 22 of cytokine that's released. 22 23 Maybe some patients have other medical 23 BY MR. THOMAS: 24 24 issues that would influence pain versus not pain. Q. Okay. So --Page 111 Page 113 1 That doesn't take away from the fact that they're 1 A. And it depends on the anatomic location. 2 experiencing pain from a mesh. 2 Q. So if a woman has SUI, stress urinary 3 So all of these factors influence 3 incontinence, you would not necessarily expect to 4 whether someone has a particular type of 4 see inflammation if you did histology in the area of 5 symptomatology following any type of surgery. 5 the SUI? 6 Q. Did you review any studies analyzing the 6 A. In what area of the SUI? 7 question why some women who receive mesh for the 7 In the urethra? in the bladder? in the 8 treatment of SUI, and who have inflammation, have 8 vagina? 9 9 pain and others do not? There's a whole -- it's a completely 10 10 A. Could you repeat that? different histology for all these locations. 11 Q. Did you review any studies or papers of any 11 Q. Are you saying there won't be any 12 kind which analyzed the question of why some women 12 inflammation in some of these people who have these who receive mesh for the treatment of SUI experience 13 13 pelvic floor disorders? 14 pain and others do not? 14 A. Yeah. I would say if you took a vaginal 15 A. Well, the first time you said 15 biopsy in someone with SUI, I don't see why you 16 16 would have inflammation. "inflammation". 17 Q. What did I say the second time? 17 O. Okay. 18 A. You didn't say "inflammation" the second 18 A. If it wasn't otherwise inflamed by some 19 19 20 20 Q. Well, let me start over again. Q. Do you agree with this statement: 21 21 What I'm trying to understand, Doctor, "At present, general human tissue 22 very simply: You gave me a descriptive answer about 22 interactions with the mesh are known, but we have an 23 why some people experience pain and others don't. 23 incomplete understanding of interactions specific to Are you aware of any papers that 24 24 a mesh material and design as well as the

29 (Pages 110 to 113)

Page 114 Page 116 1 pathophysiology of any complications"? 1 amount of time, it would degrade. But I -- it would 2 A. I don't understand that question. 2 be something that you would have to evaluate 3 MR. AYLSTOCK: Objection to form. 3 microscopically. 4 A. Or that statement. That seems very 4 MR. THOMAS: Let's go off the record 5 convoluted to me. 5 for a second. BY MR. THOMAS: 6 6 (Recess from 10:42 a.m. to 10:51 a.m.) 7 7 BY MR. THOMAS: Q. Okay. 8 A. I'm not sure who wrote it for you but could 8 Q. Can you approximate how much time you've 9 9 spent working on this litigation from the time you 10 Q. I didn't write it for me. But nobody wrote 10 were retained till now? 11 it for me. 11 A. Maybe -- I would say approximately 200 12 12 hours. Probably not -- maybe not that much. I "At present, general human tissue 13 13 don't know. 160 hours. interactions with the mesh are known, but we have an Q. And that would be for the six cases, as 14 incomplete understanding of interactions specific to 14 15 a mesh material and design, as well as the 15 well as the general file for which you've billed 16 pathophysiology of any complications." 16 time? 17 17 A. I would say none of these processes are A. Correct. 18 completely known 100 percent. There's always things 18 Q. All right. And you charge \$500 for your 19 that are discovered about the specific mechanisms of 19 time? 20 all these interactions. But that doesn't take away 20 A. Yes. 21 from the fact that we know a significant amount --21 Q. And have you submitted bills yet? 22 at least enough to know how certain material, like 22 A. Some. 23 mesh, would interact in a patient's body. 23 Q. Have you been paid? 24 24 Q. Do you agree with this statement: A. Some. Page 115 Page 117 1 1 "That the question of whether MR. THOMAS: Pay his bills, Bryan. 2 polypropylene degrades in vivo has not been fully 2 MR. AYLSTOCK: You know, you keep me 3 resolved despite decades of use"? 3 busy. 4 4 MR. AYLSTOCK: Objection to form. BY MR. THOMAS: 5 5 Q. And when -- what's your best recollection A. Repeat that. of when you were hired in this case? 6 BY MR. THOMAS: 6 7 Q. The question of whether polypropylene 7 A. I think there were some initial contact in 8 degrades in vivo has not been fully resolved despite 8 January of this year, but I didn't receive slides or 9 9 decades of use. anything until well after that. 10 10 MR. AYLSTOCK: Same objection. Because I know my reports were due in 11 11 early May, and maybe I had slides for over a month A. The polypropylene doesn't completely 12 dissolve? 12 before that or something. 13 BY MR. THOMAS: 13 Q. When did you begin your general literature 14 Q. Do you agree with the statement as I've 14 review? read it? 15 A. Probably in February, I would imagine. 15 16 A. Read it again. 16 January, February. 17 Q. The question of whether polypropylene 17 Q. That would be reflected in your time charges? 18 degrades in vivo has not been fully resolved despite 18 19 decades of use. 19 A. It should be. 20 Q. Do you have privileges at hospitals now? MR. AYLSTOCK: Same objection. 20 21 A. I guess I don't know, because I would say 21 A. Yes. 22 it depends on the time. Because if it's -- maybe 22 Q. And which hospitals do you have privileges 23 23 not fully with respect to maybe everyone, but I now? 24 would say more likely than not after a significant 24 A. Let's see. St. Davids Medical Center.

30 (Pages 114 to 117)

	Page 118		Page 120
1	Q. St. Davids?	1	work that I'm doing as an expert witness that I have
2	A. Yes.	2	felt the need to go to the medical staff and say
3	Seton Medical Center.	3	this has to never be used again.
4	Q. Seton?	4	BY MR. THOMAS:
5	A. S-e-t-o-n.	5	Q. I need to ask the question a little more
6	It's all in the second paragraph of	6	specifically.
7	my	7	A. Okay.
8	Q. It sure is.	8	Q. Is it fair to understand that nothing in
9	Dell Children's Medical Center?	9	the work that you've done has caused you to believe
10	A. Um-hmm.	10	that the use of Prolene sutures at the hospitals
11	Q. Arise Austin Medical Center?	11	where you have privileges creates a danger in the
12	A. Arise (pronouncing), yeah.	12	people that receive those Prolene sutures?
13	Q. Westlake Medical Center?	13	MR. AYLSTOCK: Objection to form.
14	A. Yes.	14	A. I would say from my standpoint, that's
15	Q. Resolute Health Hospital?	15	correct.
16	A. Right. Seton Northwest.	16	BY MR. THOMAS:
17	Q. As a result of your work in this case, have	17	Q. Is it fair to understand that nothing that
18	you developed any concerns medically about the safe	18	you've done in the work you've done in this case
19	use of Prolene polypropylene in patients?	19	caused you to believe that the use of
20	MR. AYLSTOCK: Objection to form.	20	Prolene polypropylene in the mesh used in the
21	A. I would say not from a pathologist's	21	treatment of stress urinary incontinence creates a
22	standpoint in my in my perspective, I guess, or	22	danger to any of the women that received those
23	from my perspective.	23	meshes at the hospitals where you have privileges?
24	///	24	MR. AYLSTOCK: Let me object to the
	Page 119		Page 121
1	Page 119	1	Page 121
1 2	BY MR. THOMAS:	1 2	word "danger." I don't know what you mean by that.
2	BY MR. THOMAS: Q. As a doctor who has medical privileges at	2	word "danger." I don't know what you mean by that.  A. Well, again, as I said, there's nothing
2 3	BY MR. THOMAS: Q. As a doctor who has medical privileges at the doctors at the hospitals that you've	2	word "danger." I don't know what you mean by that.  A. Well, again, as I said, there's nothing that I would say is life threatening that would
2 3 4	BY MR. THOMAS:  Q. As a doctor who has medical privileges at the doctors at the hospitals that you've identified on your report, have you developed any	2 3 4	word "danger." I don't know what you mean by that.  A. Well, again, as I said, there's nothing that I would say is life threatening that would necessitate me as a pathologist, in my role at the
2 3 4 5	BY MR. THOMAS: Q. As a doctor who has medical privileges at the doctors at the hospitals that you've identified on your report, have you developed any concern about the safe use of Prolene polypropylene	2 3 4 5	word "danger." I don't know what you mean by that.  A. Well, again, as I said, there's nothing that I would say is life threatening that would necessitate me as a pathologist, in my role at the hospitals, going to the medical staff to ensure that
2 3 4 5 6	BY MR. THOMAS: Q. As a doctor who has medical privileges at the doctors at the hospitals that you've identified on your report, have you developed any concern about the safe use of Prolene polypropylene in patients of those hospitals?	2 3 4 5 6	word "danger." I don't know what you mean by that.  A. Well, again, as I said, there's nothing that I would say is life threatening that would necessitate me as a pathologist, in my role at the hospitals, going to the medical staff to ensure that something is not used.
2 3 4 5 6 7	BY MR. THOMAS:  Q. As a doctor who has medical privileges at the doctors at the hospitals that you've identified on your report, have you developed any concern about the safe use of Prolene polypropylene in patients of those hospitals?  A. Well, I would say that's not really	2 3 4 5 6 7	word "danger." I don't know what you mean by that.  A. Well, again, as I said, there's nothing that I would say is life threatening that would necessitate me as a pathologist, in my role at the hospitals, going to the medical staff to ensure that something is not used.  BY MR. THOMAS:
2 3 4 5 6	BY MR. THOMAS: Q. As a doctor who has medical privileges at the doctors at the hospitals that you've identified on your report, have you developed any concern about the safe use of Prolene polypropylene in patients of those hospitals? A. Well, I would say that's not really there is nothing that I have identified that I find	2 3 4 5 6	word "danger." I don't know what you mean by that.  A. Well, again, as I said, there's nothing that I would say is life threatening that would necessitate me as a pathologist, in my role at the hospitals, going to the medical staff to ensure that something is not used.  BY MR. THOMAS:  Q. Do you find from your work in this case
2 3 4 5 6 7 8	BY MR. THOMAS: Q. As a doctor who has medical privileges at the doctors at the hospitals that you've identified on your report, have you developed any concern about the safe use of Prolene polypropylene in patients of those hospitals? A. Well, I would say that's not really there is nothing that I have identified that I find to be influencing mortality or something that would	2 3 4 5 6 7 8	word "danger." I don't know what you mean by that.  A. Well, again, as I said, there's nothing that I would say is life threatening that would necessitate me as a pathologist, in my role at the hospitals, going to the medical staff to ensure that something is not used.  BY MR. THOMAS:  Q. Do you find from your work in this case that Prolene polypropylene and the meshes used for
2 3 4 5 6 7 8	BY MR. THOMAS: Q. As a doctor who has medical privileges at the doctors at the hospitals that you've identified on your report, have you developed any concern about the safe use of Prolene polypropylene in patients of those hospitals?  A. Well, I would say that's not really there is nothing that I have identified that I find to be influencing mortality or something that would be a significant alarm that I would raise with the	2 3 4 5 6 7 8	word "danger." I don't know what you mean by that.  A. Well, again, as I said, there's nothing that I would say is life threatening that would necessitate me as a pathologist, in my role at the hospitals, going to the medical staff to ensure that something is not used.  BY MR. THOMAS:  Q. Do you find from your work in this case that Prolene polypropylene and the meshes used for the treatment of stress urinary incontinence
2 3 4 5 6 7 8 9 10	BY MR. THOMAS:  Q. As a doctor who has medical privileges at the doctors at the hospitals that you've identified on your report, have you developed any concern about the safe use of Prolene polypropylene in patients of those hospitals?  A. Well, I would say that's not really there is nothing that I have identified that I find to be influencing mortality or something that would be a significant alarm that I would raise with the medical staff.	2 3 4 5 6 7 8 9 10	word "danger." I don't know what you mean by that.  A. Well, again, as I said, there's nothing that I would say is life threatening that would necessitate me as a pathologist, in my role at the hospitals, going to the medical staff to ensure that something is not used.  BY MR. THOMAS:  Q. Do you find from your work in this case that Prolene polypropylene and the meshes used for the treatment of stress urinary incontinence manufactured by Ethicon create an unreasonable risk
2 3 4 5 6 7 8 9 10 11	BY MR. THOMAS:  Q. As a doctor who has medical privileges at the doctors at the hospitals that you've identified on your report, have you developed any concern about the safe use of Prolene polypropylene in patients of those hospitals?  A. Well, I would say that's not really there is nothing that I have identified that I find to be influencing mortality or something that would be a significant alarm that I would raise with the medical staff.  Q. If you had identified any concern from your	2 3 4 5 6 7 8 9	word "danger." I don't know what you mean by that.  A. Well, again, as I said, there's nothing that I would say is life threatening that would necessitate me as a pathologist, in my role at the hospitals, going to the medical staff to ensure that something is not used.  BY MR. THOMAS:  Q. Do you find from your work in this case that Prolene polypropylene and the meshes used for the treatment of stress urinary incontinence manufactured by Ethicon create an unreasonable risk of danger to women that receive them in the
2 3 4 5 6 7 8 9 10 11 12 13	BY MR. THOMAS:  Q. As a doctor who has medical privileges at the doctors at the hospitals that you've identified on your report, have you developed any concern about the safe use of Prolene polypropylene in patients of those hospitals?  A. Well, I would say that's not really there is nothing that I have identified that I find to be influencing mortality or something that would be a significant alarm that I would raise with the medical staff.  Q. If you had identified any concern from your work in this case that you believe that	2 3 4 5 6 7 8 9 10 11	word "danger." I don't know what you mean by that.  A. Well, again, as I said, there's nothing that I would say is life threatening that would necessitate me as a pathologist, in my role at the hospitals, going to the medical staff to ensure that something is not used.  BY MR. THOMAS:  Q. Do you find from your work in this case that Prolene polypropylene and the meshes used for the treatment of stress urinary incontinence manufactured by Ethicon create an unreasonable risk of danger to women that receive them in the hospitals where you have privileges?
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31 (Pages 118 to 121)

Page 122 Page 124 1 MR. AYLSTOCK: Same objection. 1 preoperative visits. 2 At what point in time? With what 2 BY MR. THOMAS: 3 3 labels affixed? It's entirely too vague. Q. Fair to conclude, though, that you have not 4 4 had conversations with anybody on the medical staffs A. I guess I don't really -- I don't really 5 understand the question. 5 of any of the hospitals where you have privileges б 6 about any risks associated with the TVT devices for BY MR. THOMAS: 7 7 the treatment of stress urinary incontinence. Q. Is it true that you've not told anybody at the hospitals where you work that they should stop 8 Correct? 9 implanting Ethicon TVT meshes for the treatment of 9 MR. AYLSTOCK: Objection to form. 10 10 A. I have not had any discussions with the stress urinary incontinence? True? 11 A. That's correct. 11 medical staff about TVT or any sort of 12 Q. And the reason why you haven't done that is 12 polypropylene-containing mesh. 13 because you don't see that any of the Ethicon meshes 13 MR. THOMAS: Okay. I think we're 14 14 used for the treatment of stress urinary ready to go to individual cases. 15 incontinence present an unreasonable risk of harm to 15 MR. AYLSTOCK: Okay. 16 the women that receive them. Correct? 16 MR. THOMAS: Do you want to take a 17 17 MR. AYLSTOCK: Objection to form. break first? 18 18 MR. AYLSTOCK: Yeah. Let's conclude A. No. I would say that's kind of an 19 19 oversimplification of my role as a pathologist in the general deposition. 20 20 the hospital. MR. THOMAS: And just for the record, 21 My role would not be to alert the 21 we have an agreement that background questions and 22 22 medical staff to stop using a particular type of questions that we've asked in this general 23 medical device without knowing if there are risks 23 deposition will be applied to the individual cases 24 that are now discussed with these patients may be 24 so that we don't have to reask or redo certain Page 123 Page 125 1 1 what I consider to be dangerous, maybe a woman now things. 2 after discussing those known risks with her 2 MR. AYLSTOCK: Yeah. In fact, we'll 3 3 physician wouldn't consider dangerous. insist that it not be reasked or redone. 4 4 I would say my role as a pathologist MR. THOMAS: Right. 5 would be that if I found that these were associated 5 MR. AYLSTOCK: Anything that was 6 6 with a high risk of developing leukemia, and it's covered in the general portions of this report. 7 not something that's reported in the medical 7 MR. THOMAS: But there will be times 8 8 literature, and it's a product that's still being obviously where we will have to ask predicate 9 9 used. questions in order to form an appropriate question, 10 10 Something like that at that point, I and we'll deal with those as they arise. 11 would go and sound the alarm to the medical staff 11 MR. AYLSTOCK: Mr. Curtis will deal 12 that, Hey, this is something that is not described 12 with them. 13 in their handouts. It's not something that's being 13 MR. CURTIS: Well, the understanding 14 discussed by the company. You haven't had the 14 is, the time we've just spent is on the general 15 opportunity to discuss this risk with the patient. 15 issues, and will not be repeated in the six 16 But my experience as a pathologist from reviewing X 16 individual cases. 17 number of patients is that this is causing leukemia 17 MR. THOMAS: Well, as best we can, 18 so you need to be aware of that. 18 unless we have to relate it to a question in order 19 19 There's no scenario like that that has to make the question clear. And we'll figure that 20 20 out. I don't think we'll have any problem with occurred that I have felt the need to alert the 21 21 medical staff, because the risk/benefit ratio of any that. 22 procedure, whether I deem it dangerous or not, is 22 MR. CURTIS: I don't think we will 23 23 not my responsibility given that that's what the either. 24 surgeon discusses with the patients in their 24 What's the time?

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Page 126
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 1
               THE REPORTER: The total time is
                                                         1
 2
                                                         2
                                                                  ACKNOWLEDGMENT OF DEPONENT
      2 hours, 36 minutes.
                                                         3
 3
               MR. CURTIS: Thank you.
                                                         4
 4
               (Proceedings concluded at 11:03 a.m.)
                                                         5
                                                              hereby certify that I have read the
 5
                                                         6
                                                              foregoing pages, and that the same is
 6
                                                         7
                                                              a correct transcription of the answers
 7
                                                         8
                                                              given by me to the questions therein
 8
                                                         9
                                                              propounded, except for the corrections or
 9
                                                       10
                                                              changes in form or substance, if any,
10
                                                              noted in the attached Errata Sheet.
                                                       11
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                                                       15
                                                               PAUL J. MICHAELS, M.D.
                                                                                                 DATE
14
                                                       16
15
                                                       17
16
                                                       18
                                                              Subscribed and sworn
17
                                                              to before me this
18
                                                       19
                                                                ____ day of ______, 20____.
19
                                                              My commission expires:_____
                                                       20
20
                                                       21
21
22
                                                       22
                                                              Notary Public
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24
                                          Page 127
                                                                                                 Page 129
                                                                IN THE UNITED STATES DISTRICT COURT
 1
                                                               FOR THE SOUTHERN DISTRICT OF WEST VIRGINIA
                                                         2
               ERRATA
                                                                    CHARLESTON DIVISION
                                                         3
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              - - - - - -
                                                             IN RE: ETHICON, INC., PELVIC ) Master File No. REPAIR SYSTEM PRODUCTS )
                                                         5
 3
 4
      PAGE LINE CHANGE
                                                             PRODUCTS LIABILITY LITIGATION ) 2:12-MD-02327
 5
                                                             THIS DOCUMENT RELATES TO THE ) MDL 2327
 6
        REASON:
                                                             FOLLOWING CASES IN WAVE 2 )
                                                             OF MDL 200:
 7
                                                                         ) JOSÉPH R. GOODWIN
                                                             Tamara Carter, et al. v. )
Ethicon, Inc., et al. ) U.S. DISTRICT JUDGE
        REASON:
 8
 9
                                                             Civil Action No. 2:12-cv-01661)
10
        REASON:
                                                             Sandra Childress, et al. v. )
                                                             Ethicon, Inc., et al.
11
                                                        12
                                                             Civil Action No. 2:12-cv-01564)
12
        REASON:
                                                             Marion Chrysler v.
13
                                                             Ethicon, Inc., et al. )
Civil Action No. 2:12-cv-02060 )
14
        REASON:
15
                                                             Melissa Sanders, et al. v. )
                                                             Ethicon, Inc., et al.
16
        REASON:
                                                             Civil Action No. 2:12-cv-01562)
17
                                                        17
                                                             Ana Sierra, et al. v.
18
        REASON:
                                                             Ethicon, Inc., et al.
                                                             Civil Action No. 2:12-cv-01819)
19
                                                             Toni Hernandez v.
20
        REASON: _
                                                        19
                                                             Ethicon, Inc., et al.
21
                                                             Civil Action No. 2:12-cv-02073 )
        REASON: _____
22
23
                                                        22
                                                                   REPORTER'S CERTIFICATE
                                                               ORAL DEPOSITION OF PAUL J. MICHAELS, M.D.
24
        REASON:
                                                                    June 18, 2016
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33 (Pages 126 to 129)

	Page 130		Page 132
1		1	
2	I, Rebecca J. Callow, Registered Merit	2	
3	Reporter and Notary Public in and for the State of	3	SUBSCRIBED AND SWORN TO under my hand an
4	Texas, hereby certify to the following:	4	seal of office on this the day of
5	That the witness, PAUL J. MICHAELS, M.D.,	5	
6	was duly sworn by the officer and that the	6	
7	transcript of the oral deposition is a true record	7	
8	of the testimony given by the witness;	8	Rebecca J. Callow, RMR, CRR, RPR
9	That the original deposition was delivered	9	Notary Public, Travis County, Texas
10	to	10	My Commission No. 12955701-3
11	That a copy of this certificate was served	11	Expires: 09/12/2017
12	on all parties and/or the witness shown herein on	12	Expires. 09/12/2017
13			
14	That pursuant to information given to the	13	
15	deposition officer at the time said testimony was	14	
16 17	taken, the following the amount of time used by	15	
	each party at the time of the deposition:	16	
18	David B. Thomas (2h36m)	17	
19	Attorney for Johnson & Johnson and	18	
20	Ethicon, Inc.	19	
20	Bryan F. Aylstock (0h0m) Attorney for Plaintiffs	20	
21	Auothey for Flamuits	21	
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23		23	
24		24	
	Page 131		
1	I fought an acatify that appropriate EDCD		
1	I further certify that pursuant to FRCP		
2	Rule 30(f)(1) that the signature of the deponent:		
3	[ ] was requested by the deponent or a		
4	party before the completion of the deposition and is		
5	to be returned within 30 days from date of receipt		
6	of the transcript. If returned, the attached		
7	Changes and Signature Page contains any changes and		
8	the reasons therefor;		
9	[ ] was not requested by the deponent or		
10	a party before the completion of the deposition.		
11	-		
12	I further certify that I am neither		
13	counsel for, related to, nor employed by any of the		
14	parties or attorneys to the action in which this		
15	proceeding was taken. Further, I am not a relative		
16	or employee of any attorney of record in this cause,		
17	nor am I financially or otherwise interested in the		
18	outcome of the action.		
19	outcome of the action.		
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2.4			